

Site Details:
 FLAT A, 3, MORN
 CRESCENT, LON
 7RH

Client Ref: 3A_M
Report Ref: HMD-
Grid Ref: 52911

Map Name: Natio
Map date: 1968-
Scale: 1:2,50
Printed at: 1:2,50

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

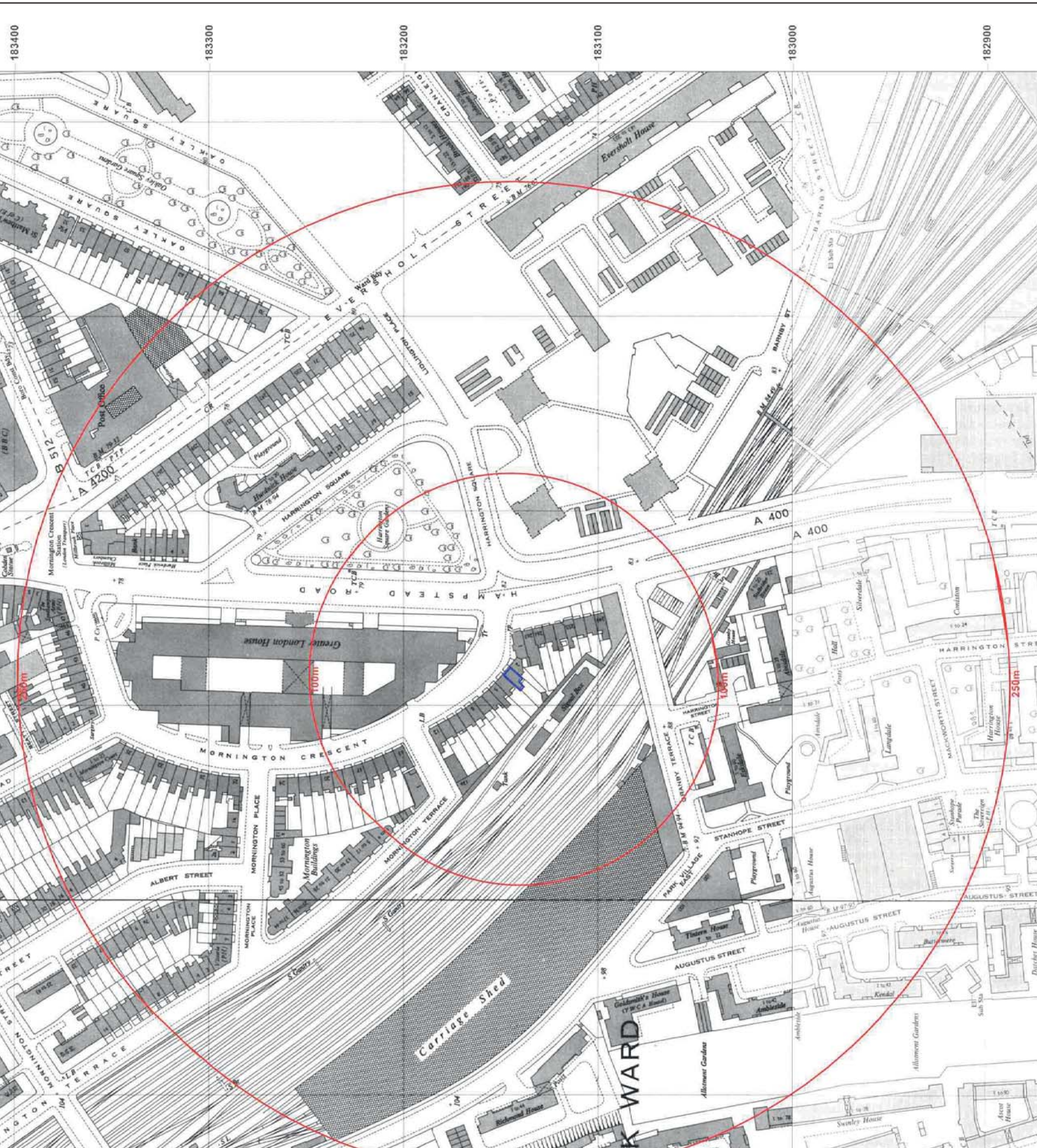
Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



Site Details:
FLAT A, 3, MORN
CRESCENT, LON
7RH

Client Ref: 3A_M
Report Ref: HMD-
Grid Ref: 52911

Map Name: Natio
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Printed at: 1:2,50



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183200

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183000

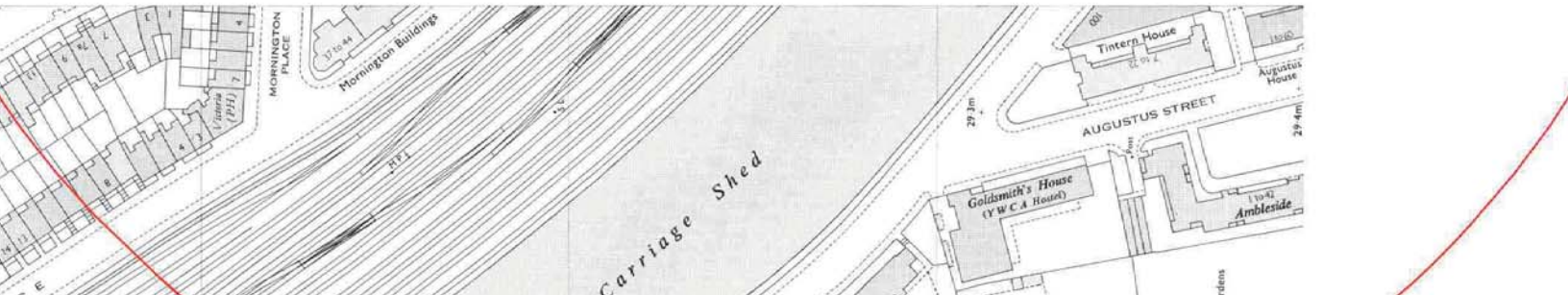
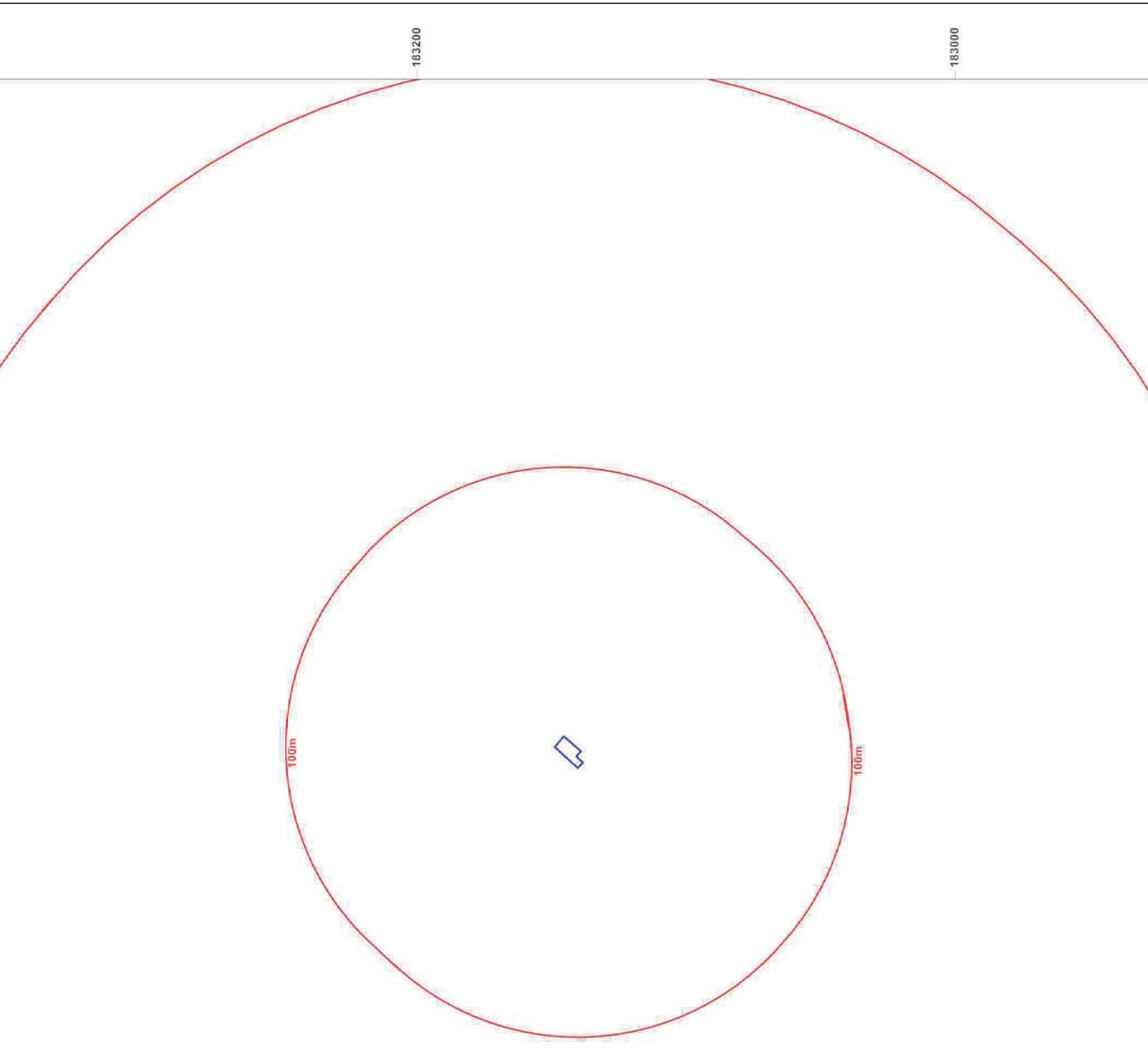
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Site Details:
FLAT A, 3, MORN
CRESCENT, LON
7RH

Client Ref: 3A_M
Report Ref: HMD-
Grid Ref: 52911

Map Name: Natio
Map date: 1976
Scale: 1:1,25
Printed at: 1:2,00

Surveyed 1976
Revised 1976
Edition N/A
Copyright N/A
Levelled N/A

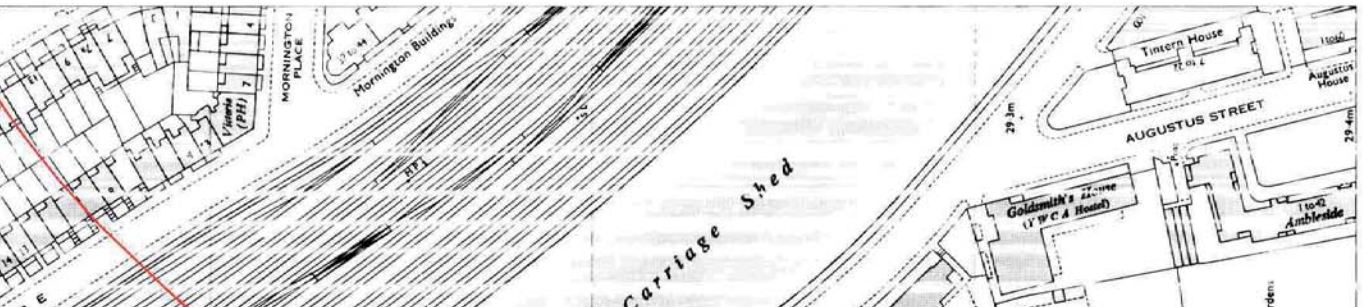
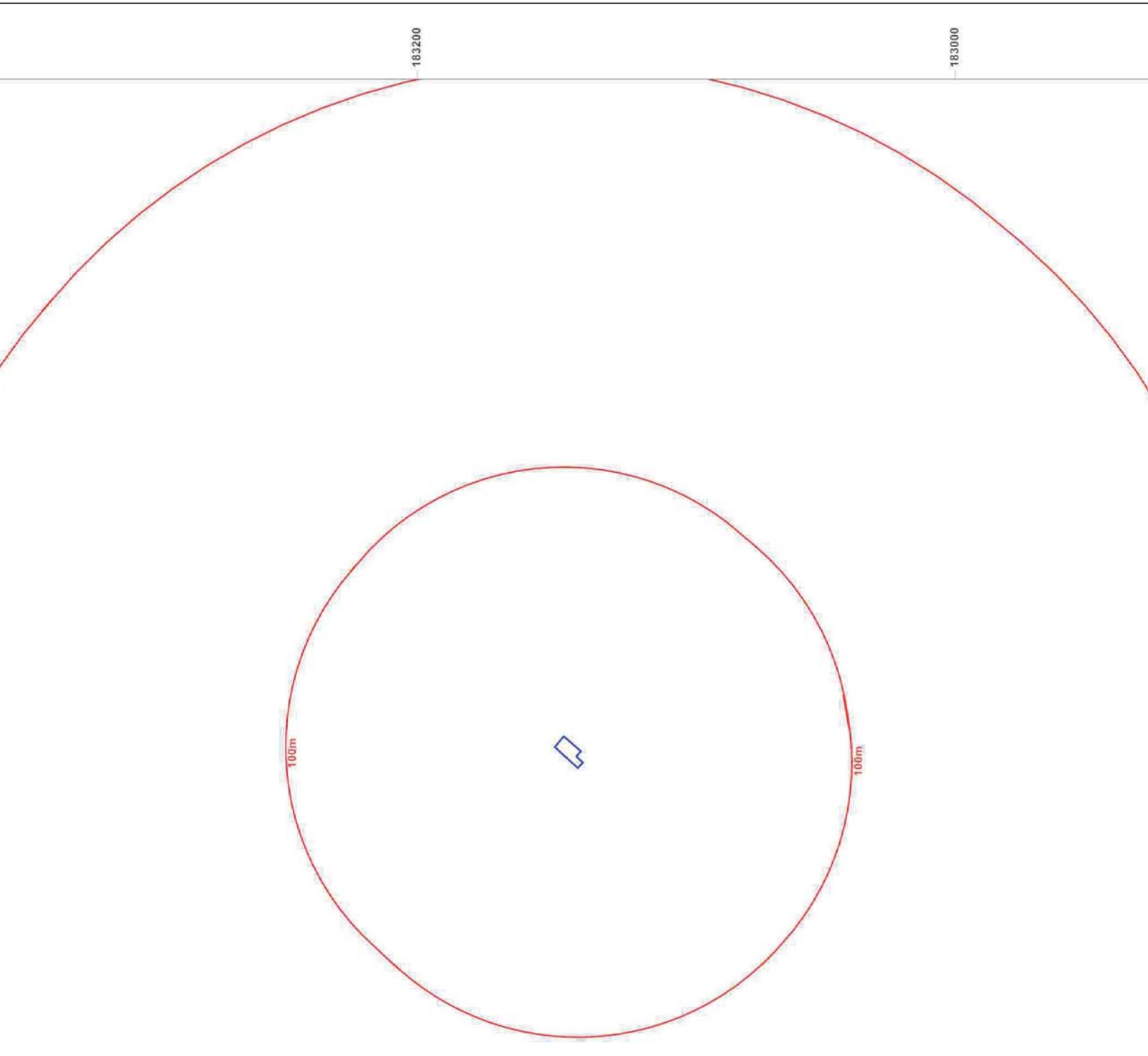


Site Details:
FLAT A, 3, MORN
CRESCENT, LON
7RH

Client Ref: 3A_M
Report Ref: HMD-
Grid Ref: 52911

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Scale: 1:1,25
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Surveyed 1952
Revised 1976
Edition N/A
Copyright 1977
Levelled 1975

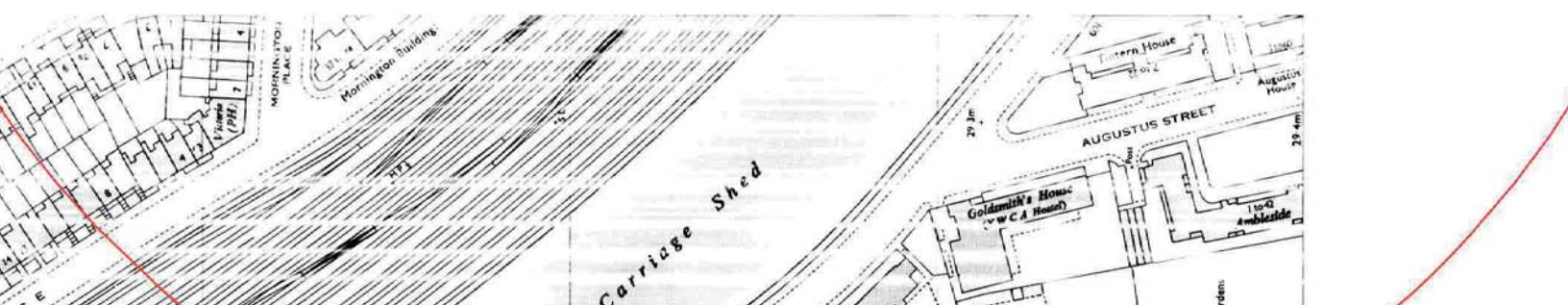
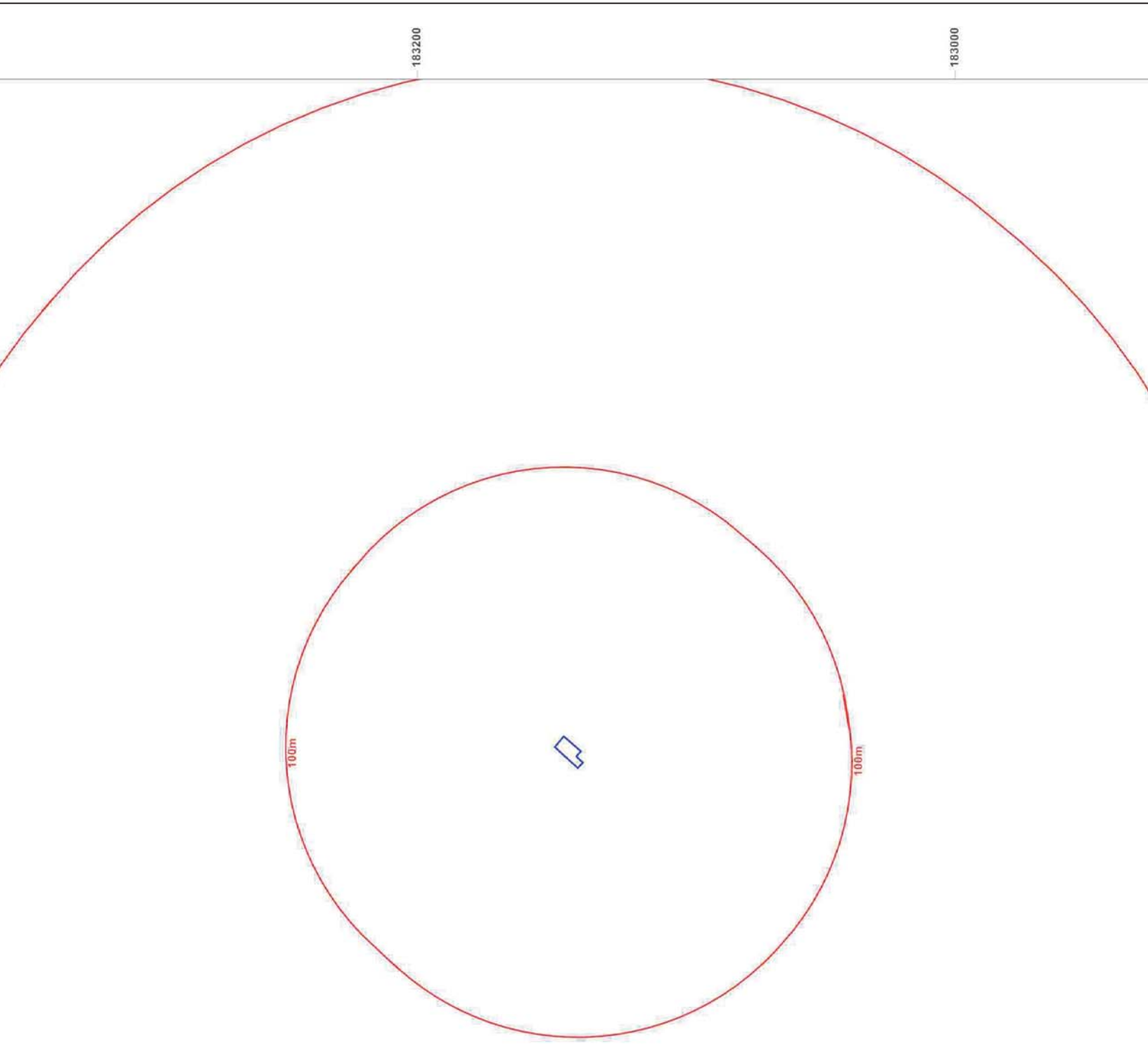


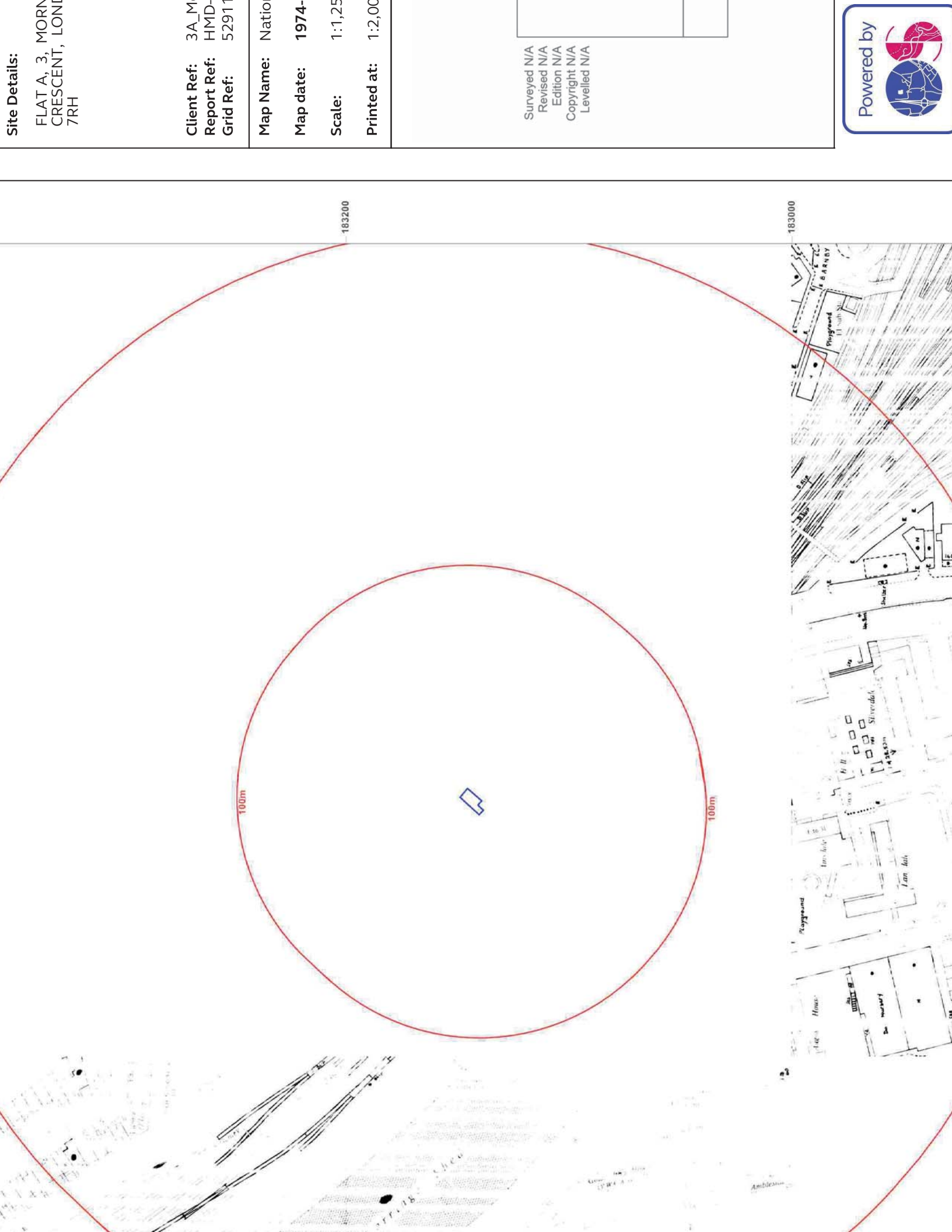
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 CRESCENT, LON
 7RH

Client Ref: 3A_M
Report Ref: HMD-
Grid Ref: 52911

Map Name: Natio
Map date: 1977
Scale: 1:1,25
Printed at: 1:2,00

Surveyed 1952
 Revised 1976
 Edition N/A
 Copyright 1977
 Levelled N/A





Site Details:

FLAT A, 3, MORN
CRESCENT, LOND
7RH

Client Ref: 3A_M
Report Ref: HMD-
Grid Ref: 52911

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Map date: 1974-
Scale: 1:1,25
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Site Details:
 FLAT A, 3, MORNINGTON CRESCENT, LONDON W8 7RH

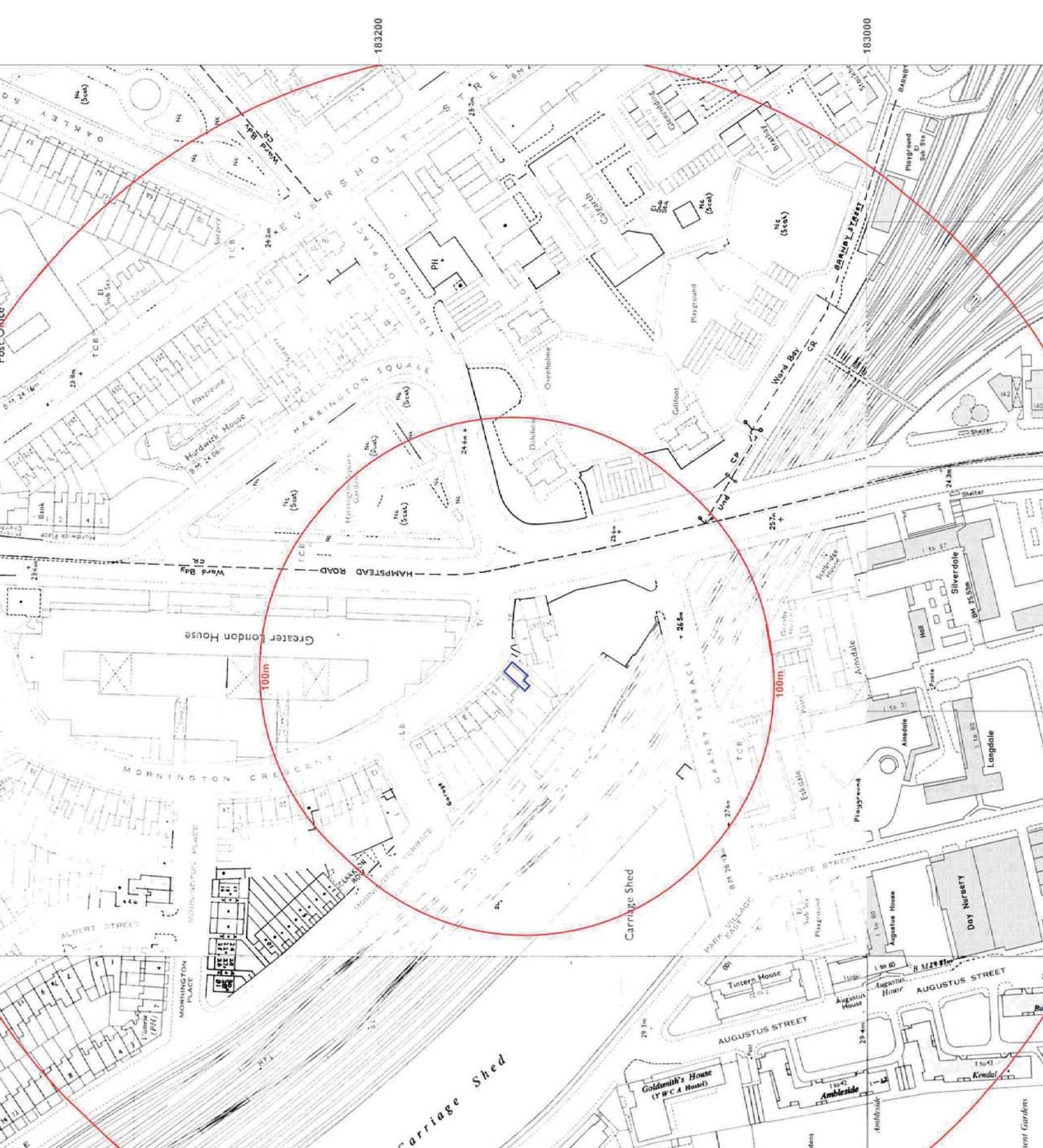
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Scale: 1:1,25
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Surveyed 1975
 Revised 1990
 Edition N/A
 Copyright 1990
 Levelled 1975

Surveyed 1975
 Revised 1990
 Edition N/A
 Copyright 1990
 Levelled 1975

Powered by 



Site Details:
 FLAT A, 3, MORNINGTON
 CRESCENT, LONDON
 W7RH

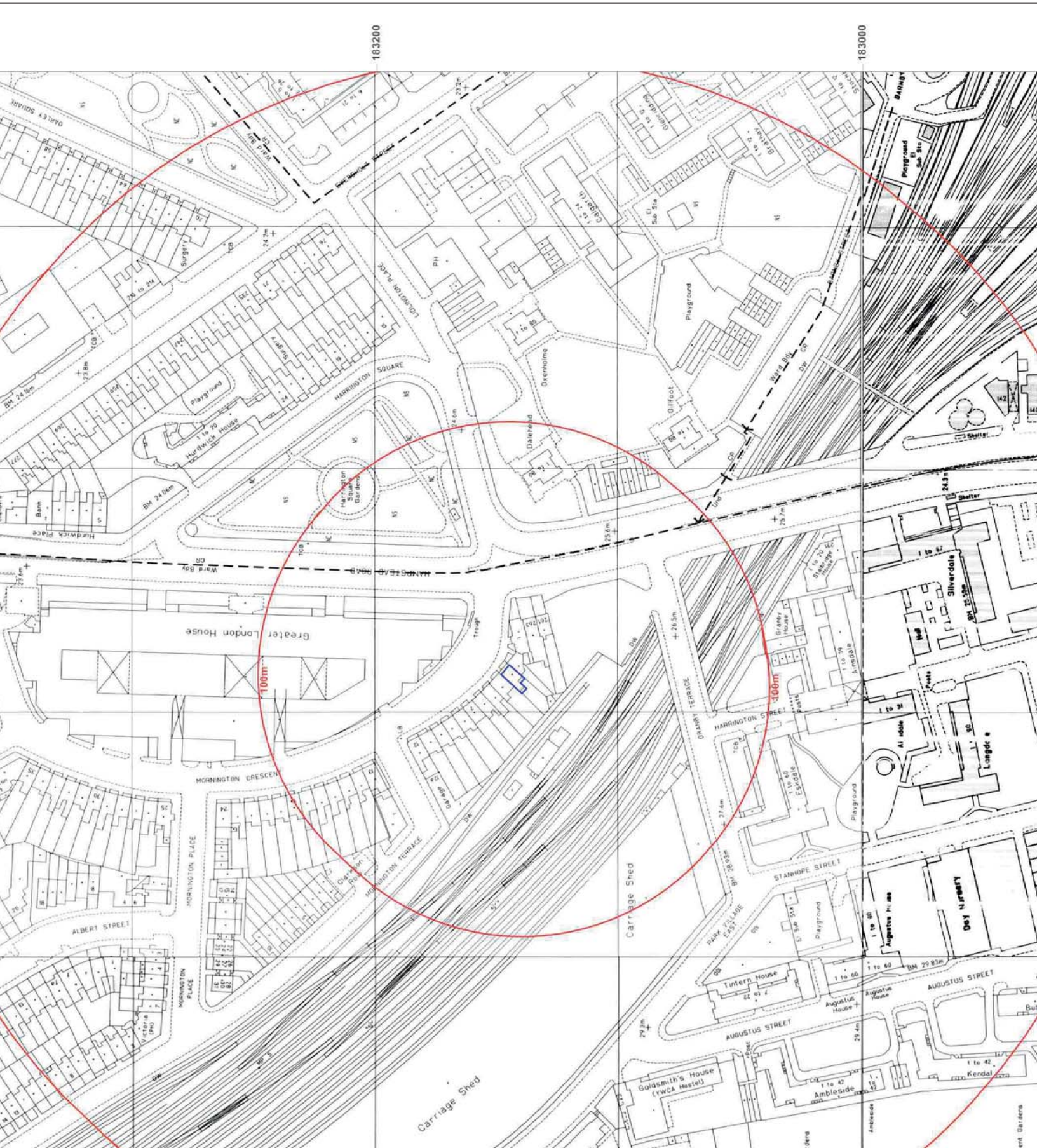
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 Revised 1991
 Edition N/A
 Copyright 1991
 Levelled N/A

Surveyed 1991
 Revised 1991
 Edition N/A
 Copyright 1991
 Levelled N/A

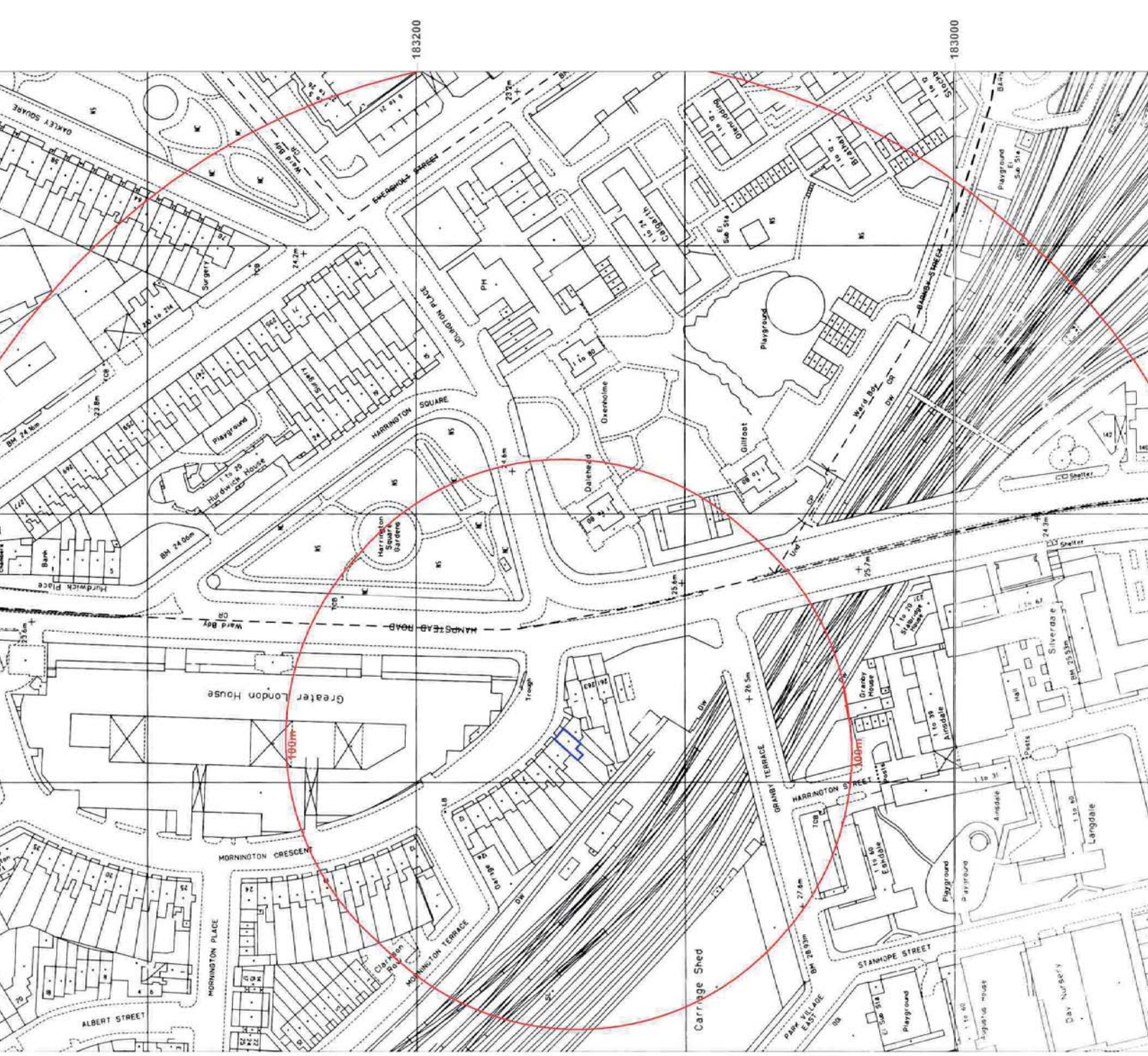
Powered by 



Site Details:
 FLAT A, 3, MORN
 CRESCENT, LON
 7RH

Client Ref: 3A_M
Report Ref: HMD-
Grid Ref: 52911

Map Name: Natio
Map date: 1991-
Scale: 1:1,25
Printed at: 1:2,00



Appendix D Ground and Water Ltd Ground Investigation Report

Basement Impact Assessment

3A Mornington Crescent, London
NW1 7RH

Geotechnical Factual Report

21 November 2017

MAUND GEO-CONSULTING

Produced for: Dilhan Sebastian

3A Mornington Crescent, NW1 7RH

Prepared by:

Julian Maund BSc PhD CEng MIMMM CGeol FGS

Geotechnical Engineer

Maund Geo-Consulting Ltd
20 Mortlake Avenue
Worcester WR5 1QD

T 07817 018716

E julian.maund@gmail.com

3A Mornington Crescent - Geotechnical Factual Report




Report Title	Basement Impact Assessment	Site Address	3A Mornington Crescent, London NW1 6RH
Work Stage	Factual Geotechnical Report	Report Date	November 2017
Brief Description of the Report Contents	Factual report on ground investigation undertaken in November 2017 as part of a Basement Impact Assessment		

Document Control Sheet

Project Title 3A Mornington Crescent
 Report Title Ground Investigation Factual Report
 Reference MGC-FGR-17-25-V1
 Revision 1
 Status Final
 Control Date 21 November 2017

Record of Issue

Issue	Status	Date	Author	
A	Final	21/11/17	Julian Maund	

Distribution

	Contact	Copies
Dilhan Sebastian		1
Croft Structural Engineers	Concetta Cosenza	1

Contents

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Appendices

- Appendix A Drawings**
- Appendix B Exploratory Hole Records**
- Appendix C Geotechnical Laboratory Testing Report**

1 Introduction

1.1 Terms of Reference

Maund Geo-Consulting Ltd (MGC) was instructed on 17 October 2017 by Croft Structural Engineers Ltd on behalf of Dilhan Sebastian to undertake a ground investigation at 3A Mornington Crescent to provide information on the ground conditions to support a Basement Impact Assessment to satisfy planning requirements for a basement extension.

1.2 Limitations

Notwithstanding anything to the contrary contained in the report, Maund Geo Consulting Limited (MGC) has exercised reasonable skill, care and diligence in the performance of the services required by Dilhan Sebastian and MGC shall not be liable except to the extent that it has failed to exercise reasonable skill, care and diligence and this report shall be read and construed accordingly. Information provided by third parties has been used in good faith and is taken at face value; however, MGC cannot guarantee its accuracy or completeness. The inherent variation of ground conditions allows only definition of the actual conditions at the locations and depths at the time of the investigation. At intermediate locations, conditions can only be inferred.

2 The Site

2.1 Location

The property is located on Mornington Crescent which is within the London Borough of Camden, shown on Figure 1 in Appendix A.

2.2 Geology

Information obtained from the BGS website <http://mapapps.bgs.ac.uk/geologyofbritain/home.html> indicates that the site is located on The London Clay Formation.

3 Ground Investigation

3.1 General

A ground investigation was undertaken on 2nd November 2017. The investigation was carried out by Topdrill Ltd which comprised 1 No. cable percussive borehole and two No. hand dug trial pits to expose party wall footings. The borehole was undertaken using a specialist LLAMR rig which was carried through the house in sections and assembled at the borehole location. The location of the exploratory holes is shown in Figure 2 in Appendix A.

3.1 Service Clearance and survey

The borehole and trial pit locations were checked for service clearance by using a Cable Avoidance Tool and the use of Thames Water service drawings. The location of the borehole and trial pits was referenced to existing features.

3.2 Drilling depths

Borehole BH01 was drilled to 9.50 m. The trial pits were excavated to approximately 0.5 m depth.

3.3 Insitu Testing

Insitu Standard Penetration Tests were undertaken at regular intervals was shown on borehole records included in Appendix B.

3.4 Sampling

Disturbed samples were taken in the borehole from the split sampler at all SPT depths from the borehole.

3.5 Installation

A groundwater monitoring standpipe was installed in BH01. Details of the installation are included in the borehole records in Appendix B.

4 Laboratory Testing

4.1 General

Selected samples were sent to i2 Laboratories Ltd for geotechnical testing.

4.2 Geotechnical Testing on soil

The following tests were undertaken in accordance with BS1377:1990. The test results with methodologies are included in Appendix C.

Test type	No. of tests	Test Method
Moisture Content	5	BS1377:1990
Plasticity Index - 1 point Liquid Limit	5	BS1377:1990
pH, and water-soluble sulphate,	1	BRE SD1

5 Groundwater Monitoring

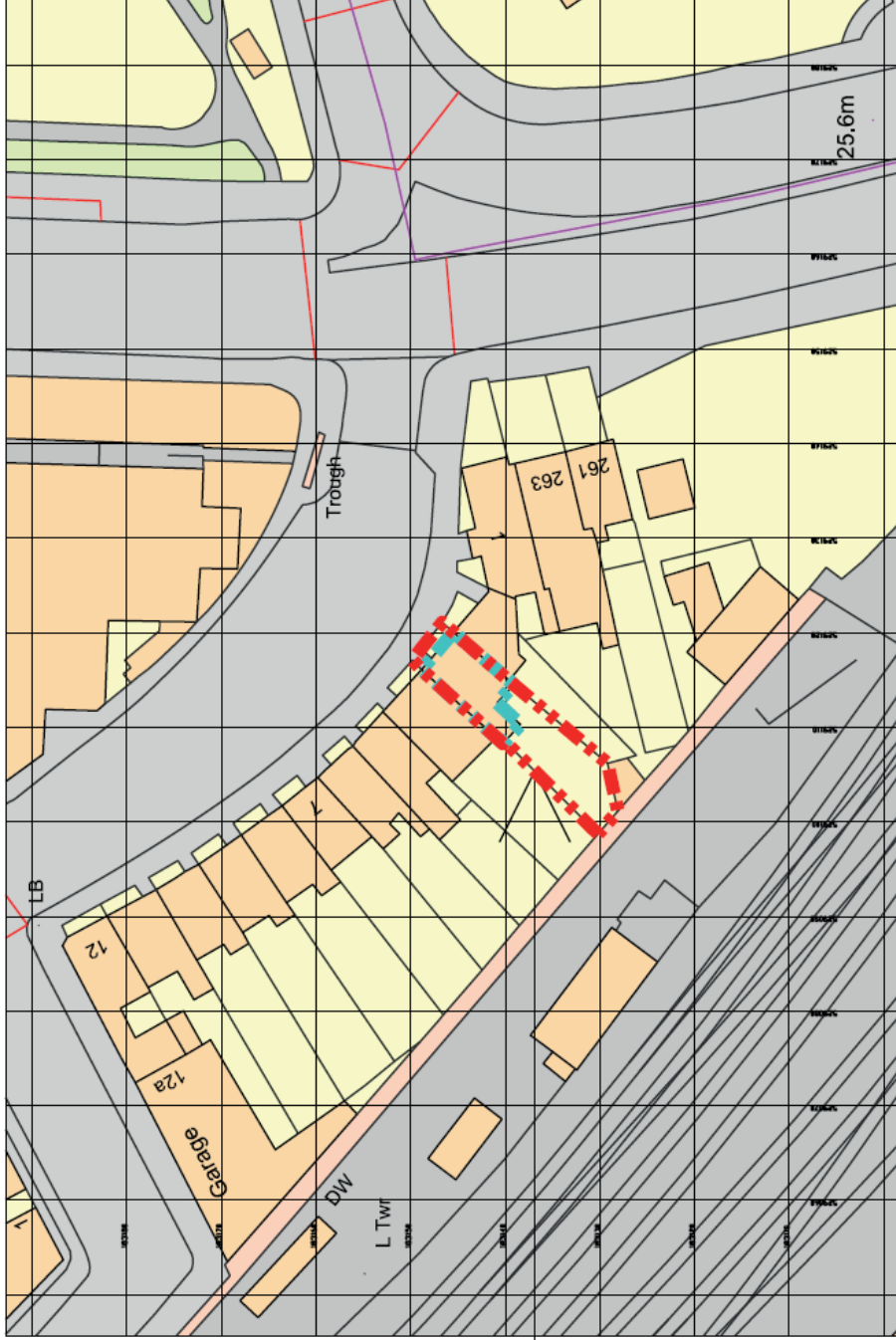
Groundwater levels in the borehole installation in BH01 was monitored while on site on 26/10/17 and 2 no. subsequent occasions. The results are proved in Table 5.1.

Table 5.1

Date of Monitoring	Groundwater (depth metres below ground level)
2/11/17	Seepages at 5.45 and 7.10 m while drilling
14/11/17	4.47
21/11/17	4.17

Appendices

Appendix A Drawings



Ordnance Survey, (c) Crown Copyright 2017. All rights reserved. Licence number 100022432

Client

Dilhan Sebastian

Project

3A Mornington Crescent - BIA.

Job No.

MGC/17/26

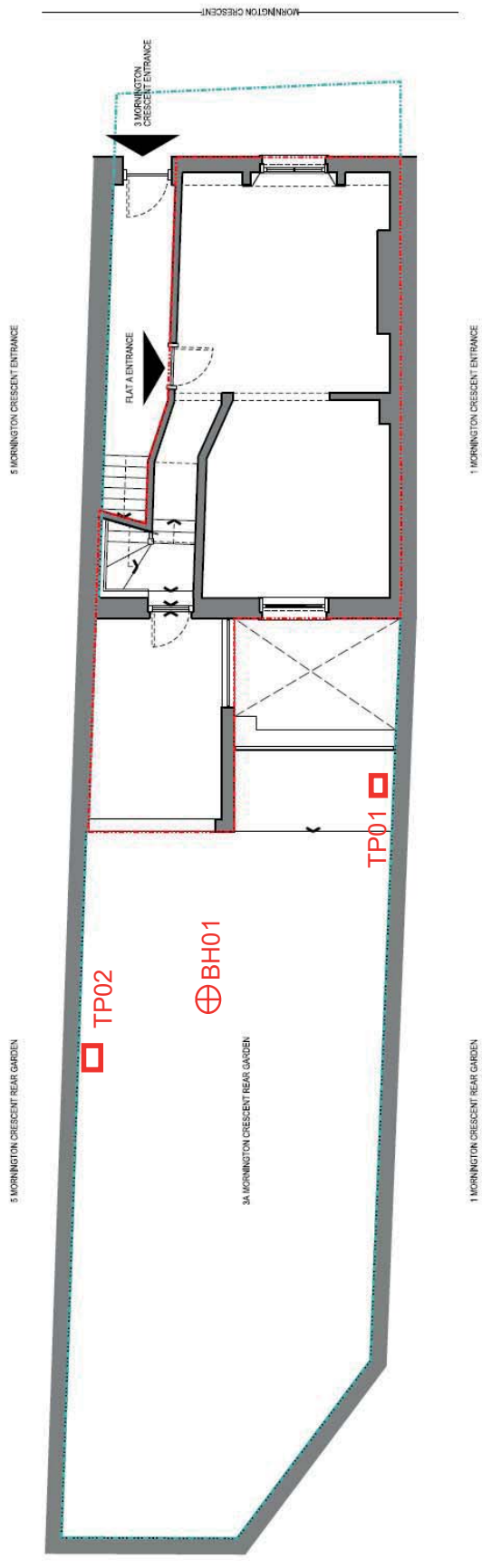
Title

Site Location Plan

Figure

1

MAUND GEO-CONSULTING



<p>Client</p> <p>Dilhan Sebastian</p>	<p>Project</p> <p>3A Mornington Crescent</p>
<p>MAUND GEO-CONSULTING</p>	
<p>Job No.</p> <p>MGC/17/26</p>	<p>Title</p> <p>Exploratory Location Plan</p>
<p>Figure</p> <p>2</p>	

Appendix B Exploratory Hole Records

MAUND GEO-CONSULTING

Julian Maund BSc PhD MIMMM CEng FGS CGeol

Maund Geo-Consulting Ltd
20 Mortlake Avenue
Worcester WR5 1QD
07817018716
julian.maund@gmail.com

Borehole No.

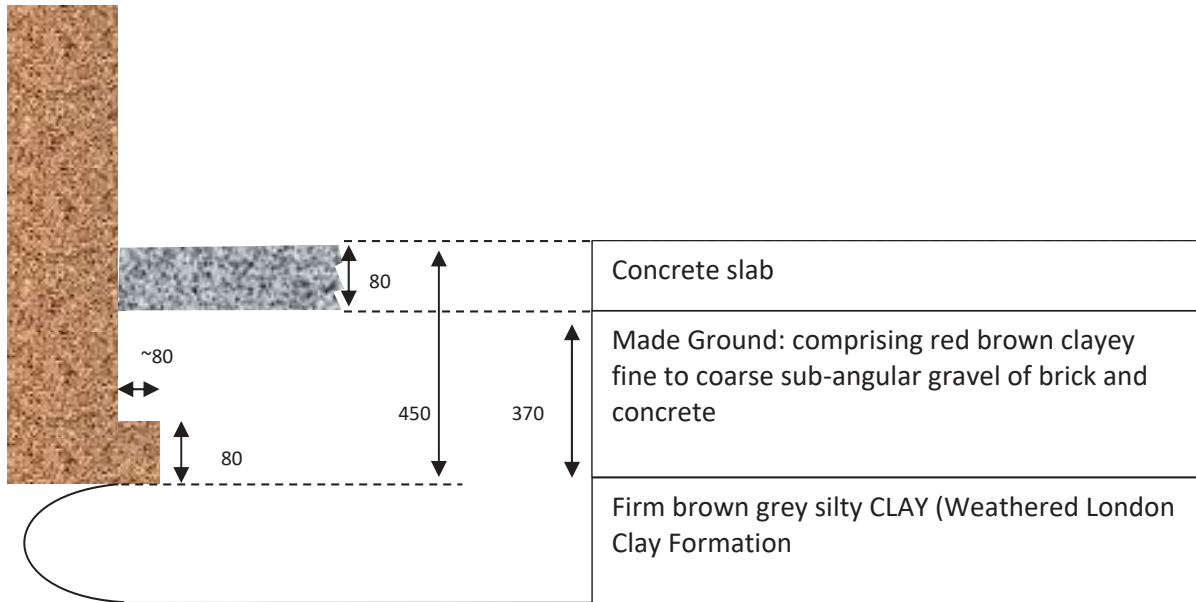
BH01

Sheet 1 of 1

Project Name: 3A Mornington Crescent, London NW1 7RH	Project No:	Co -ords	Hole Type: Top Drill LLAMR
Location: 3A Mornington Crescent, London NW1 7RH		Level: (m AOD) 26 (Approx only)	Hole Diameter: 150 mm
Client: Dilhan Sebastian		Date Drilled: 02/11/17	Logged By: JGM

Well	Water Strikes	Sampling and Insitu Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0-0.3	E		0.05	25.95		Made Ground: Concrete 600 mm square paving slabs
					0.4	25.6		Made Ground: Fine sandy clayey gravel of brick and flint
			1.20	D	N=6 (1/1,1,1,2,2)			Firm to stiff yellow brown silty CLAY with a trace of fine brown sand (London Clay Formation) ... rare fine gravel from 0.4 to 0.8 (possibly disturbed ground)
			2.00	D	N=17 (1/2,3,4,4,6)			
			3.00	D	N= 11 (1,/2,2,2,4,3)			
			4.00	D	N= 10 (1,/2,2,2,3,3)			...fine brown sand horizon at 3.9 to 3.91m ... soil becoming moist at 4.0 m
			5.00	D	N= 12 (1,/1,2,3,3,4)			... slow water seepage at 5.45 m
			6.00	D	N= 15 (1,/2,3,4,4,4)			
			7.00	D	N=44 (10,/25,21,8,7,8)			... claystone fragments recovered at 7.00 m ... water seepage at 7.1 m standing at 7.20 in 20 minutes ... becoming brown grey in colour from 7.50 m
			8.00	D	N=17 (2,/4,4,4,4,5)			
		9.00	D	N=20 (3,/5,6,4,5,5)				
					9.5	16.5		Borehole compete at 9.50 m

Remarks
 Inspection pit to 1.2 m and CAT scan.
 Groundwater struck at 5.45 slow seepage no rise in 20 mins. Groundwater struck at 7.1 m at 7.2 m after 20 minutes.
 Standpipe Piezomter installed to depth of 8 m. Bentonite seal from 5.0 to 0.5 m. Gas bung and flat cover



NOTE: NOT TO SCALE Dimensions in mm.

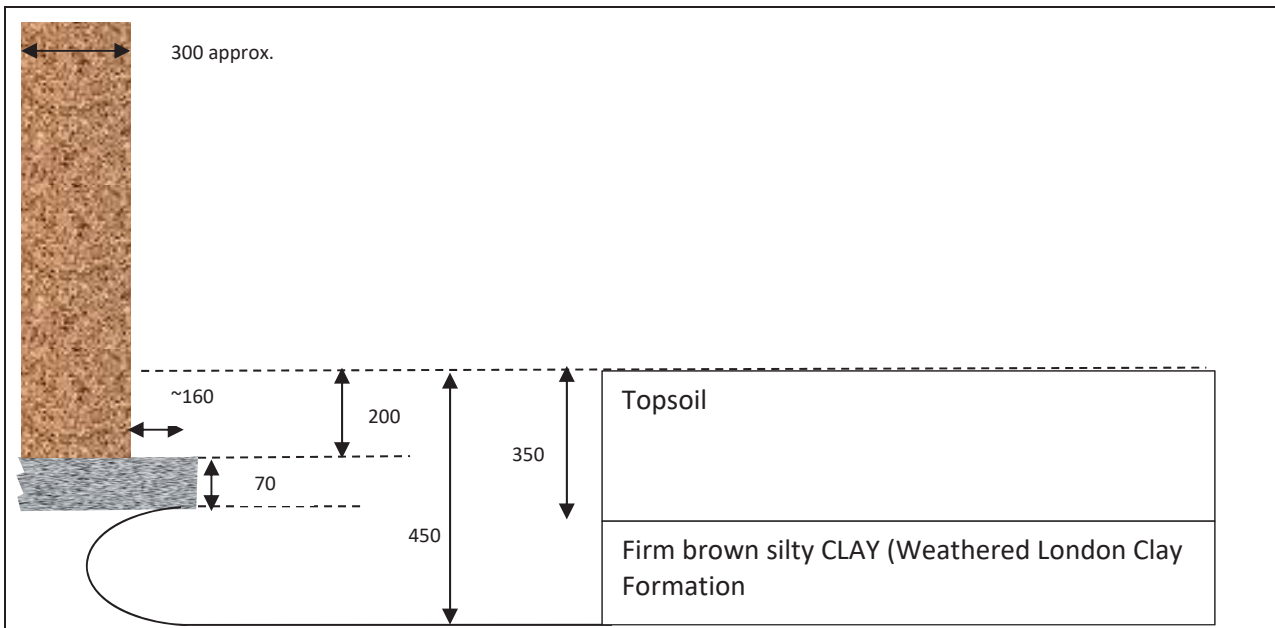


Concrete



Brick wall (with concrete render)

Client: Dilhan Sebastian	Date: November 2017	Project: 3A Mornington Crescent NW1 7RH
Section Drawing: Foundation Exposure TP01	MAUND GEO-CONSULTING	Ref: MGC 17-26



NOTE: NOT TO SCALE Dimensions in mm.



Concrete footing (extent not proven on neighbour's side)



Brick wall

Client: Dilhan Sebastian	Date: November 2017	Project: 3A Mornington Crescent NW1 7RH	
Section Drawing: Foundation Exposure TP02	<div style="background-color: #808080; color: white; padding: 10px; font-weight: bold; font-size: 1.2em;"> MAUND GEO-CONSULTING </div>		Ref: MGC 17-26

Appendix C Geotechnical Laboratory Test Report



Determination of Liquid and Plastic Limits

7 Woodshots Meadow
Croley Green Business Park
Watford Herts WD18 8YS



Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

Client: Maund GeoConsulting Ltd
Client Address: 20 Mortlake Avenue
Worcester
WR5 1QT
Contact: Julian Maund
Site Name: 3A Mornington Crescent NW1 7RH
Site Address: Not Given

Client Reference: 17-66410
Job Number: 17-66410
Date Sampled: 02/11/2017
Date Received: 02/11/2017
Date Tested: 15/11/2017
Sampled By: Not Given

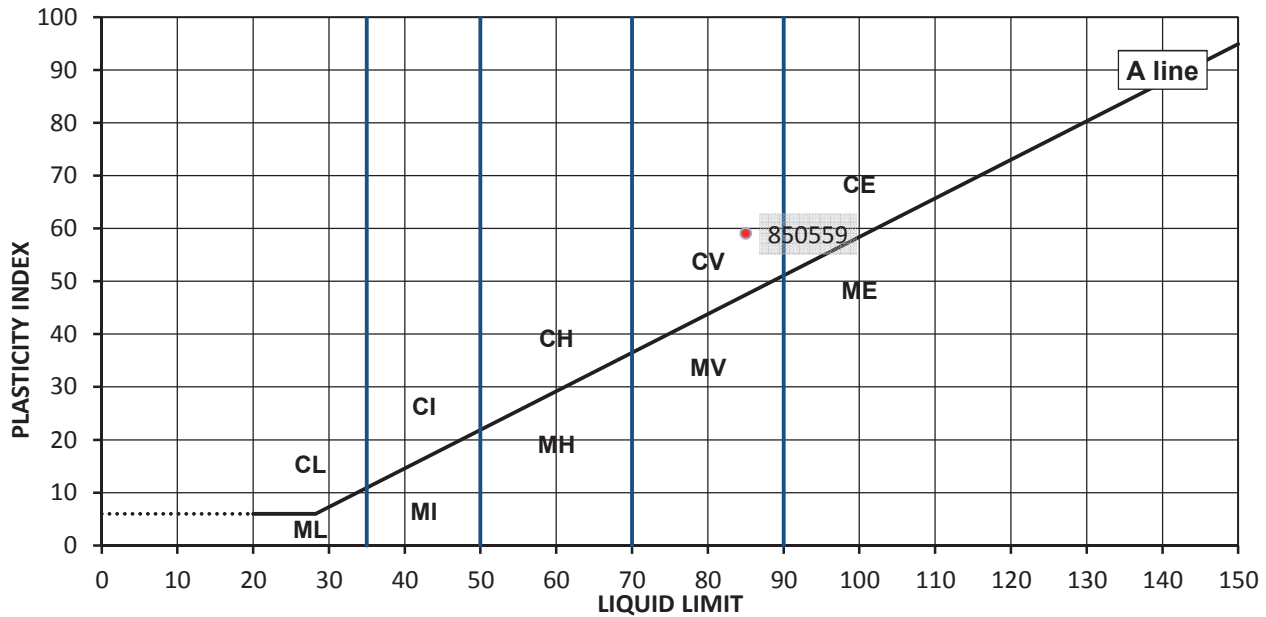
TEST RESULTS

Laboratory Reference: 850559
Sample Reference: Not Given

Description: Brown CLAY
Location: BH01
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 1.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
19	85	26	59	100



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	L	Low	Liquid Limit	below 35
M	Silt	I	Medium		35 to 50
		H	High		50 to 70
		V	Very high		70 to 90
		E	Extremely high		exceeding 90
	Organic	O	append to classification for organic material (eg CHO)		

Remarks

Approved:

Dariusz Piotrowski
PL Laboratory
Manager Geotechnical
Section

Date Reported: 21/11/2017

Signed:

Mark Beastall
Geotechnical Commercial
Manager

for and on behalf of i2 Analytical Ltd

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The results included within the report are representative of the samples submitted for analysis.
The analysis was carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland."



Determination of Liquid and Plastic Limits

7 Woodshots Meadow
Croley Green Business Park
Watford Herts WD18 8YS



Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

Client: Maund GeoConsulting Ltd
Client Address: 20 Mortlake Avenue
Worcester
WR5 1QT
Contact: Julian Maund
Site Name: 3A Mornington Cresnet NW1 7RH
Site Address: Not Given

Client Reference: 17-66410
Job Number: 17-66410
Date Sampled: 02/11/2017
Date Received: 02/11/2017
Date Tested: 15/11/2017
Sampled By: Not Given

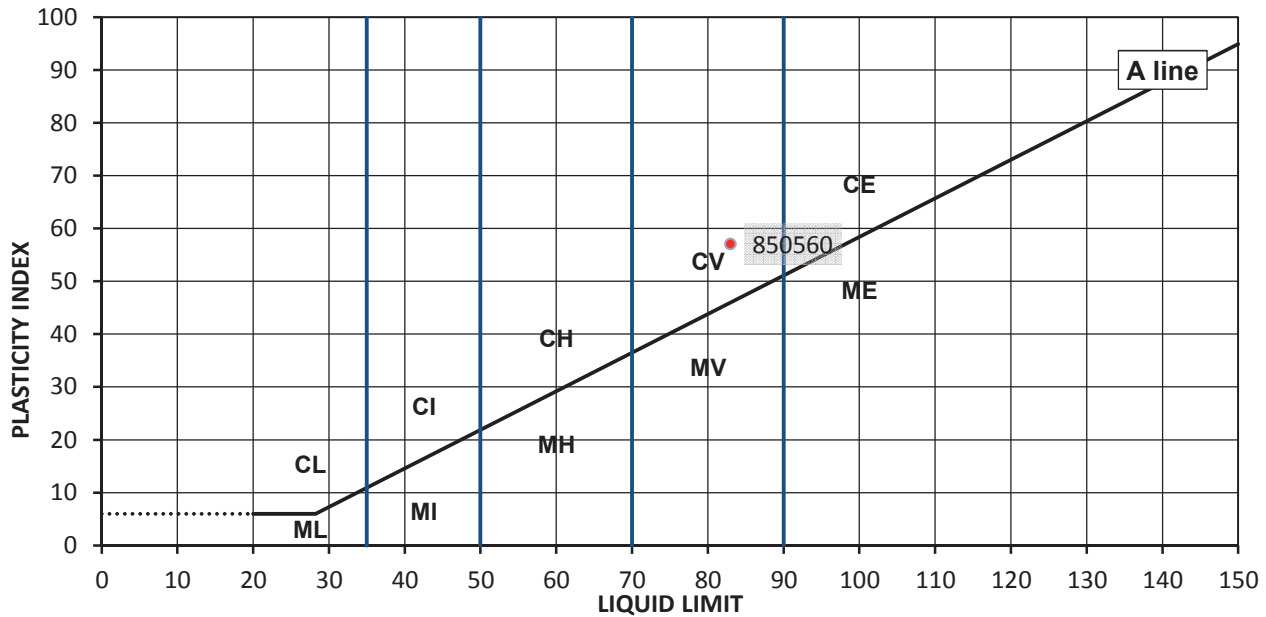
TEST RESULTS

Laboratory Reference: 850560
Sample Reference: Not Given

Description: Brown CLAY
Location: BH02
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
21	83	26	57	100



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	L	Low	Liquid Limit	below 35
M	Silt	I	Medium		35 to 50
		H	High		50 to 70
		V	Very high		70 to 90
		E	Extremely high		exceeding 90
	Organic	O	append to classification for organic material (eg CHO)		

Remarks

Approved:

Dariusz Piotrowski
PL Laboratory
Manager Geotechnical
Section

Date Reported: 21/11/2017

Signed:

Mark Beastall
Geotechnical Commercial
Manager

for and on behalf of i2 Analytical Ltd

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Determination of Liquid and Plastic Limits

7 Woodshots Meadow
Croley Green Business Park
Watford Herts WD18 8YS



Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

Client: Maund GeoConsulting Ltd
Client Address: 20 Mortlake Avenue
Worcester
WR5 1QT
Contact: Julian Maund
Site Name: 3A Mornington Crescent NW1 7RH
Site Address: Not Given

Client Reference: 17-66410
Job Number: 17-66410
Date Sampled: 02/11/2017
Date Received: 02/11/2017
Date Tested: 15/11/2017
Sampled By: Not Given

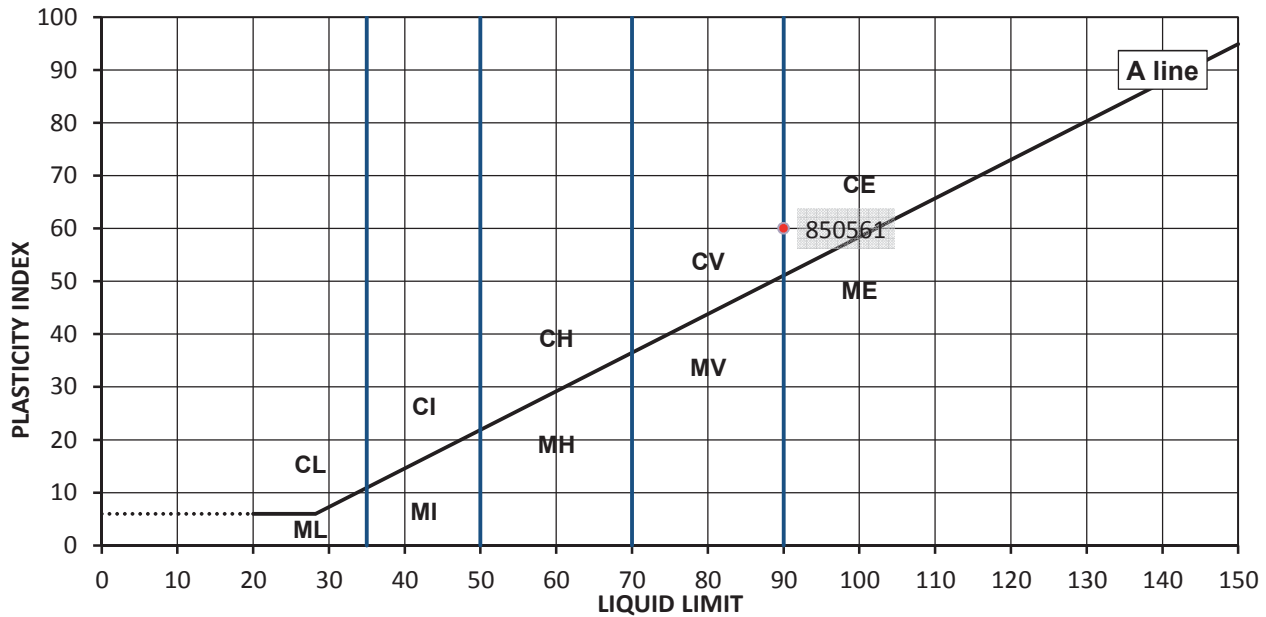
TEST RESULTS

Laboratory Reference: 850561
Sample Reference: Not Given

Description: Brown CLAY
Location: BH03
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 3.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
28	90	30	60	100



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	L	Low	Liquid Limit	below 35
M	Silt	I	Medium		35 to 50
		H	High		50 to 70
		V	Very high		70 to 90
		E	Extremely high		exceeding 90
	Organic	O	append to classification for organic material (eg CHO)		

Remarks

Approved:

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PL Laboratory
Manager Geotechnical
Section

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Determination of Liquid and Plastic Limits

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Watford Herts WD18 8YS



Tested in Accordance with BS1377-2: 1990: Clause 4.4 & 5: One Point Method

Client: Maund GeoConsulting Ltd
Client Address: 20 Mortlake Avenue
Worcester
WR5 1QT
Contact: Julian Maund
Site Name: 3A Mornington Crescent NW1 7RH
Site Address: Not Given

Client Reference: 17-66410
Job Number: 17-66410
Date Sampled: 02/11/2017
Date Received: 02/11/2017
Date Tested: 15/11/2017
Sampled By: Not Given

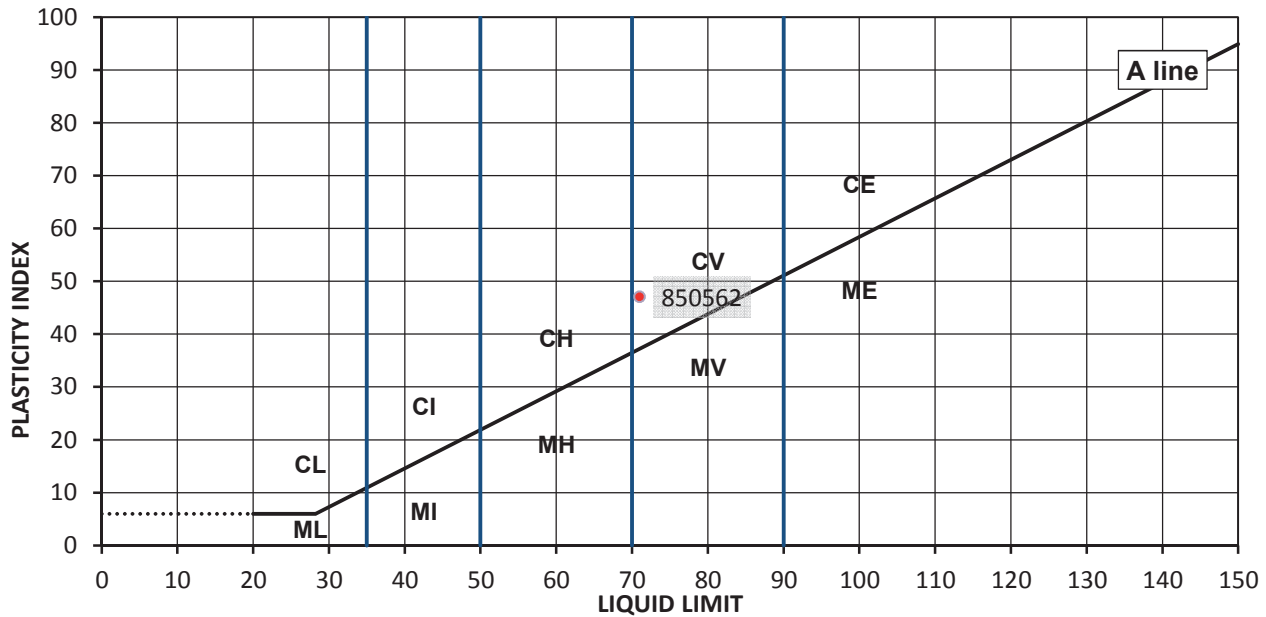
TEST RESULTS

Laboratory Reference: 850562
Sample Reference: Not Given

Description: Brown CLAY
Location: BH01
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 6.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
27	71	24	47	100



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	L	Low	Liquid Limit	below 35
M	Silt	I	Medium		35 to 50
		H	High		50 to 70
		V	Very high		70 to 90
		E	Extremely high		exceeding 90
	Organic	O	append to classification for organic material (eg CHO)		

Remarks

Approved:

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Watford Herts WD18 8YS



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Client: Maund GeoConsulting Ltd
Client Address: 20 Mortlake Avenue
Worcester
WR5 1QT
Contact: Julian Maund
Site Name: 3A Mornington Crescent NW1 7RH
Site Address: Not Given

Client Reference: 17-66410
Job Number: 17-66410
Date Sampled: 02/11/2017
Date Received: 02/11/2017
Date Tested: 15/11/2017
Sampled By: Not Given

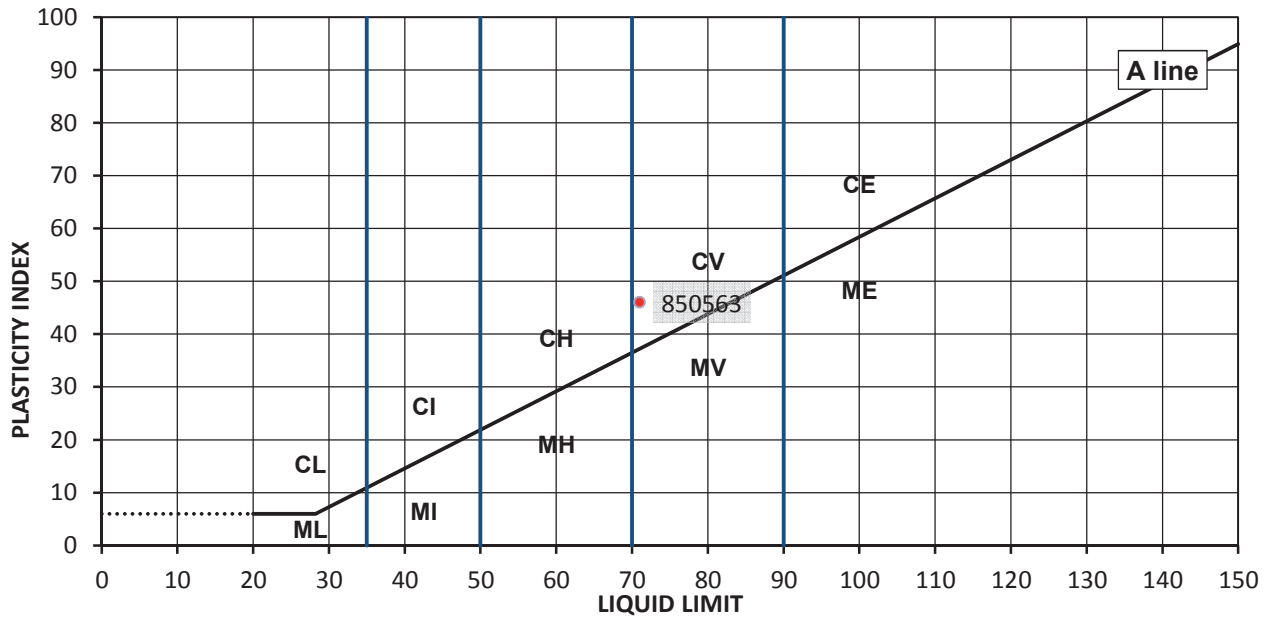
TEST RESULTS

Laboratory Reference: 850563
Sample Reference: Not Given

Description: Brown CLAY with gypsum crystals
Location: BH02
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 8.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
30	71	25	46	100



Legend, based on BS 5930:2015 Code of practice for site investigations

C	Clay	L	Low	Liquid Limit	below 35
M	Silt	I	Medium		35 to 50
		H	High		50 to 70
		V	Very high		70 to 90
		E	Extremely high		exceeding 90
	Organic	O	append to classification for organic material (eg CHO)		

Remarks

Approved:

Dariusz Piotrowski
PL Laboratory
Manager Geotechnical
Section

Date Reported: 21/11/2017

Signed:

Mark Beastall
Geotechnical Commercial
Manager

for and on behalf of i2 Analytical Ltd

"Opinions and interpretations expressed here in are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report are representative of the samples submitted for analysis. The analysis was carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland."

TEST CERTIFICATE

Summary of Classification Test Results

i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS



Client: Maund GeoConsulting Ltd
Client Address: 20 Mortlake Avenue
Worcester
WR5 1QT
Contact: Julian Maund
Site Name: 3A Mornington Crescent NW1 7RH
Site Address: Not Given

Client Reference: 17-66410
Job Number: 17-66410
Date Sampled: 02/11/2017
Date Received: 02/11/2017
Date Tested: 15/11/2017
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample			Soil Description	Density		IMC %	Atterberg				PD Mg/m ³	
		Reference	Top depth [m]	Base depth [m]		Type	bulk Mg/m ³		dry Mg/m ³	% Passing 425um %	LL %	PL %		PI %
850559	BH01	Not Given	1.00	Not Given	B	Brown CLAY			19	100	85	26	59	
850562	BH01	Not Given	6.00	Not Given	B	Brown CLAY			27	100	71	24	47	
850560	BH02	Not Given	2.00	Not Given	B	Brown CLAY			21	100	83	26	57	
850563	BH02	Not Given	8.00	Not Given	B	Brown CLAY with gypsum crystals			30	100	71	25	46	
850561	BH03	Not Given	3.00	Not Given	B	Brown CLAY			28	100	90	30	60	

Comments:

Approved:

Signed:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Mark Beastall
Geotechnical Commercial Manager

Date Reported: 21/11/2017

for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within this report are representative of the samples submitted for analysis. The analysis was carried out at: i2 Analytical Limited, ul. Polonierow 35, 43-711 Ruda Śląska, Poland.



Julian Maund
Maund GeoConsulting Ltd
20 Mortlake Avenue
Worcester
WR5 1QT

i2 Analytical Ltd.
7 Woodshots Meadow,
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Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

e: julian.maund@gmail.com

Analytical Report Number : 17-66619

Project / Site name:	3A Mornington Crescent, NW1 7RH	Samples received on:	02/11/2017
Your job number:		Samples instructed on:	03/11/2017
Your order number:		Analysis completed by:	14/11/2017
Report Issue Number:	1	Report issued on:	14/11/2017
Samples Analysed:	1 soil sample		

Signed: 

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Analytical Report Number: 17-66619

Project / Site name: 3A Mornington Crescent, NW1 7RH

Lab Sample Number				851934				
Sample Reference				BH01				
Sample Number				None Supplied				
Depth (m)				1.20				
Date Sampled				02/11/2017				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	17				
Total mass of sample received	kg	0.001	NONE	0.24				

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.0				
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.10				



Analytical Report Number : 17-66619

Project / Site name: 3A Mornington Crescent, NW1 7RH

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
851934	BH01	None Supplied	1.20	Brown clay.



Analytical Report Number : 17-66619

Project / Site name: 3A Mornington Crescent, NW1 7RH

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

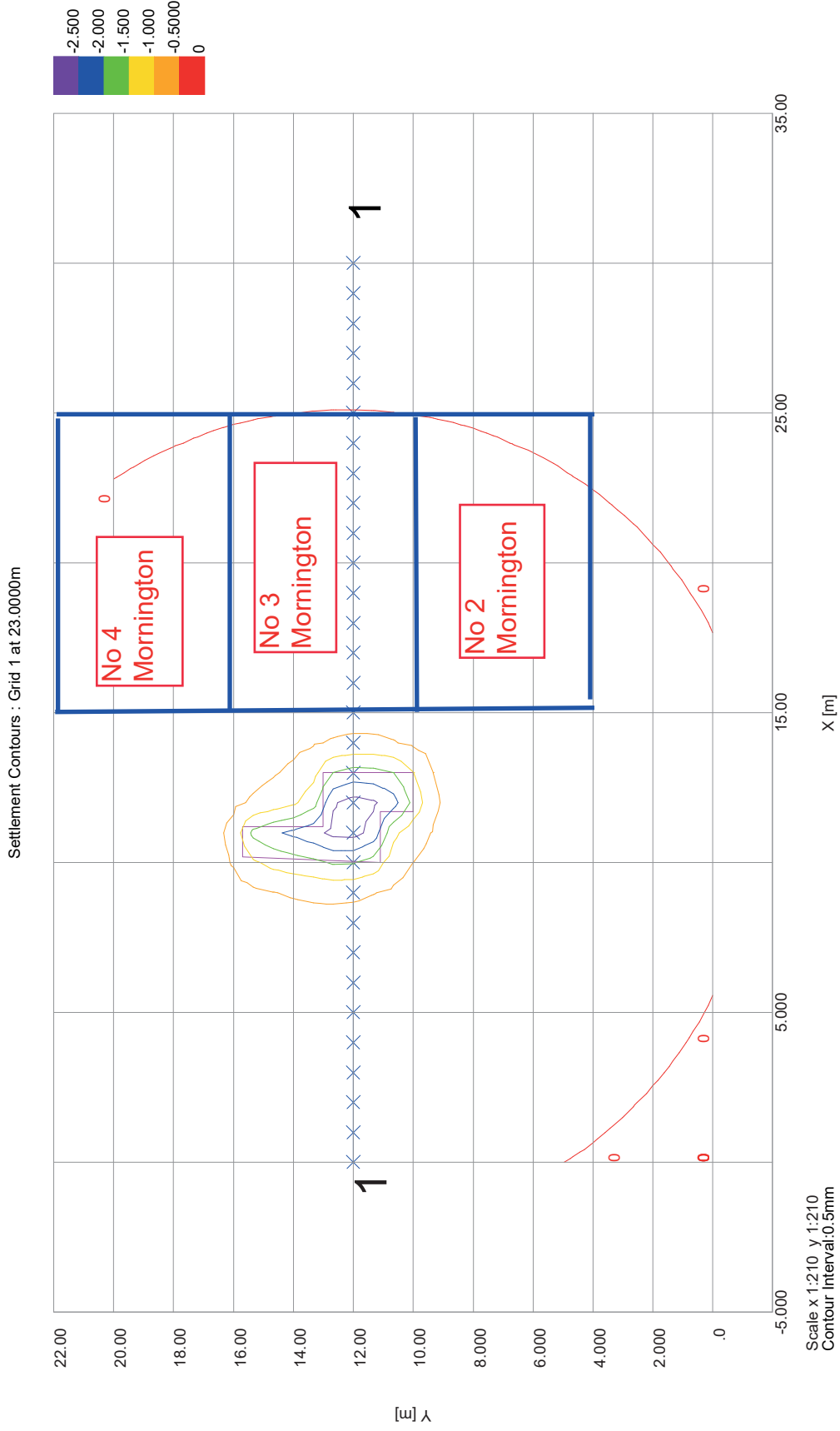
Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

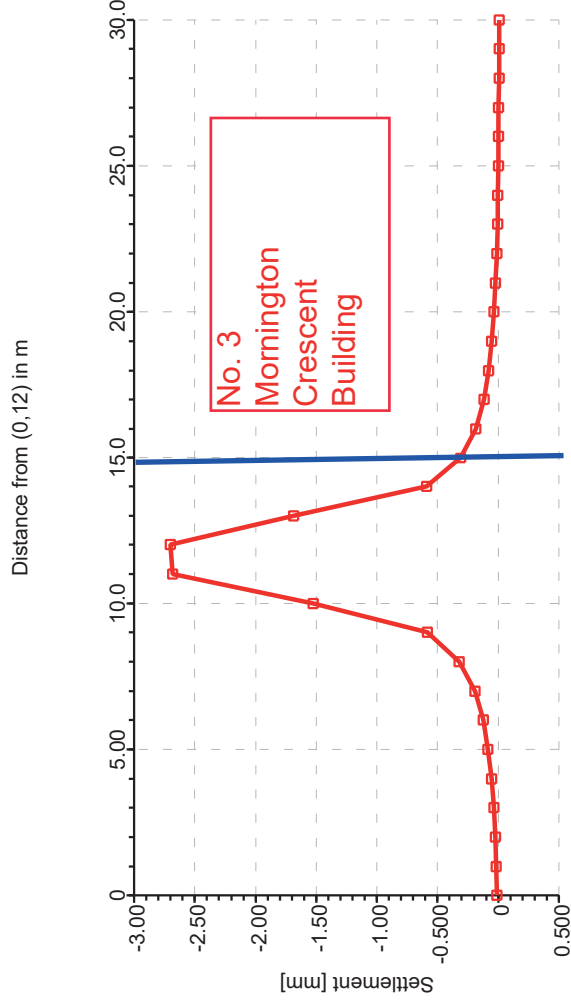
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 300C.

Appendix E PDISP Output



Displacement for SW-NE 2

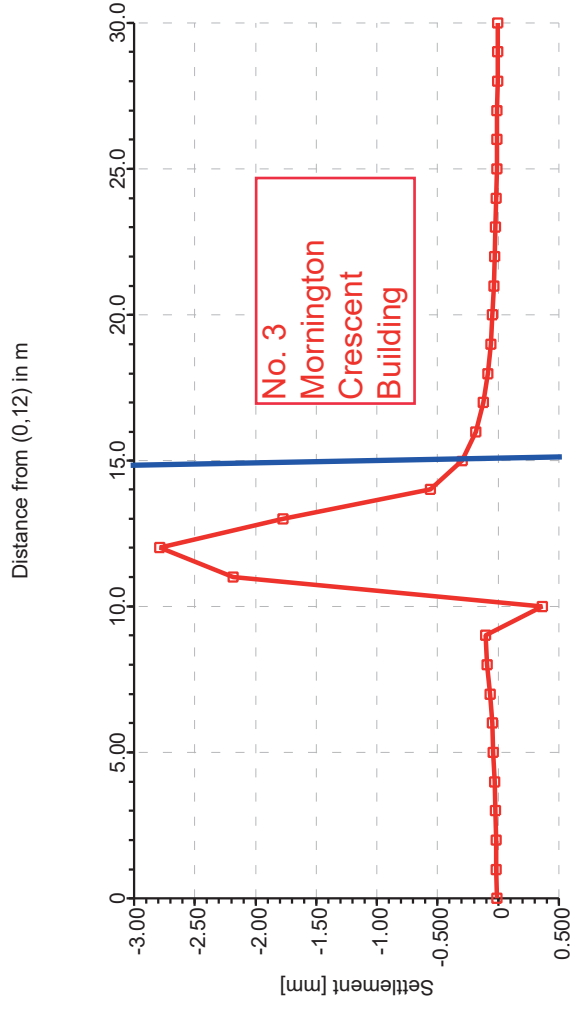
—■— Line Displacement





Displacement for SW-NE 2

—■— Line Displacement



3A Mornington Crescent
BIA
Undrained short term movement from excavation

Analysis Options

Analysis: Boussinesq
Global Poisson's ratio: 0.50
Maximum allowable ratio between values of E: 1.5
Horizontal rigid boundary level: 0.00 [m OD]
Stiffness for horizontal displacement calculations: Weighted average
Using legacy heave correction factor: No
Displacements at load centroids: Yes

Soil Profiles Soil Profile 1

Layer	Level at top [mOD]	Number of intermediate displacement levels	Youngs Modulus [kN/m ²]	Poissons ratio	Non-linear curve
1	26.000	52	16200.0	0.50000	None

Soil Zones

Zone	Name	X coordinates min [m]	X coordinates max [m]	Y coordinates min [m]	Y coordinates max [m]	Profile
1	London Clay	0.00000	30.00000	0.00000	20.00000	Soil Profile 1

Load Data

Load ref.	Name	Shape	Orientation of Plane	Centre of load (Global) X, Y, Z (level)	Load position local x from, Width x or Radius, Length y	Polygon Coordinates	Rectangle tolerance	Number of rectangles	Normal (local z) [kN/m ²]	Tangential (local x) [kN/m ²]	Tangential (local y) [kN/m ²]
1	excavation	Polygonal	Horizontal	N/A, N/A, 23.00000	N/A, N/A, N/A	(11.7,10) (13,10) (13,13) (11.2,13) (11.2,15.7) (10.2,15.7) (10,11.1) (11.7,11.1)	10.000	3	-60.000	N/A	N/A

Polygonal Loads' Rectangles

No.	Centre of load X [m]	Centre of load Y [m]	Angle of local x from global X [Degrees]	Width x [m]	Depth y [m]
Load 1 : excavation					
1	12.35000	10.55000	90.000	1.1000	1.3000
2	11.52065	12.05000	90.000	1.9000	2.9587
3	10.67065	14.35000	90.000	2.7000	1.0587

Displacement Data

Ref.	Type	Name	Direction of Extrusion	Line/Line for extrusion First point X, Y, Z(level)	Second point X, Y, Z(level)	No. of intrvl across extrusion/line	Extrusion Depth	No. of intrvl along extrusion	Calculate	Show Detailed results
1	Grid	Grid 1	Global X	0.00000, 0.00000, 23.00000	N/A, 20.00000, 23.00000	30	30.00000	30	Yes	Yes
2	Line	NW-SE	N/A	13.00000, 0.00000, 23.00000	10.00000, 20.00000, 23.00000	20	N/A	N/A	Yes	No
3	Line	SW-NE 2	N/A	0.00000, 12.00000, 23.00000	30.00000, 12.00000, 23.00000	30	N/A	N/A	Yes	No

RESULTS FOR GRIDS

Analysis: Boussinesq
Global Poisson's ratio: 0.50
Horizontal rigid boundary level: 0.00 [m OD]

The maximum displacement difference between the Boussinesq method (-1.6936mm) and the Mindlin method (-1.7021mm) occurs at point X = 11.35000m, Y = 11.00000m, Level = 23.000mOD, and is 0.0085846mm.

Name	X [m]	Location Y [m]	Z[Level] [mOD]	Displacement Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
excavation	11.39494	12.48727	23.00000	-2.6905	22.933	-59.977	-170.27	-147.84E-6
Grid 1	0.00000	0.00000	23.00000	0.0052118	22.933	0.0	-0.0039801	0.0
	1.00000	0.00000	23.00000	0.0045548	22.933	0.0	-0.0044920	0.0
	2.00000	0.00000	23.00000	0.0037634	22.933	0.0	-0.0050620	0.0
	3.00000	0.00000	23.00000	0.0028419	22.933	0.0	-0.0055684	0.0
	4.00000	0.00000	23.00000	0.0018047	22.933	0.0	-0.0063650	0.0
	5.00000	0.00000	23.00000	679.29E-6	22.933	0.0	-0.0070788	0.0
	6.00000	0.00000	23.00000	-492.43E-6	22.933	0.0	-0.0078091	0.0
	7.00000	0.00000	23.00000	-0.0016533	22.933	0.0	-0.0085256	0.0
	8.00000	0.00000	23.00000	-0.0044886	22.933	0.0	-0.0091896	0.0
	9.00000	0.00000	23.00000	-0.0036545	22.933	0.0	-0.0097563	0.0
	10.00000	0.00000	23.00000	-0.0043412	22.933	0.0	-0.010180	0.0
	11.00000	0.00000	23.00000	-0.0047299	22.933	0.0	-0.010420	0.0
	12.00000	0.00000	23.00000	-0.0047813	22.933	0.0	-0.010453	0.0
	13.00000	0.00000	23.00000	-0.0044886	22.933	0.0	-0.010271	0.0
	14.00000	0.00000	23.00000	-0.0038787	22.933	0.0	-0.0098930	0.0
	15.00000	0.00000	23.00000	-0.0030078	22.933	0.0	-0.0093524	0.0
	16.00000	0.00000	23.00000	-0.0019510	22.933	0.0	-0.0086954	0.0
	17.00000	0.00000	23.00000	-789.44E-6	22.933	0.0	-0.0079707	0.0
	18.00000	0.00000	23.00000	400.23E-6	22.933	0.0	-0.0072220	0.0
	19.00000	0.00000	23.00000	0.0015540	22.933	0.0	-0.0065847	0.0
	20.00000	0.00000	23.00000	0.0026239	22.933	0.0	-0.0057836	0.0
	21.00000	0.00000	23.00000	0.0035781	22.933	0.0	-0.0051342	0.0
	22.00000	0.00000	23.00000	0.0043995	22.933	0.0	-0.0045443	0.0
	23.00000	0.00000	23.00000	0.0050823	22.933	0.0	-0.0040159	0.0
	24.00000	0.00000	23.00000	0.0056292	22.933	0.0	-0.0035474	0.0
	25.00000	0.00000	23.00000	0.0060487	22.933	0.0	-0.0031349	0.0
	26.00000	0.00000	23.00000	0.0063526	22.933	0.0	-0.0027735	0.0
	27.00000	0.00000	23.00000	0.0065542	22.933	0.0	-0.0024576	0.0
	28.00000	0.00000	23.00000	0.0066676	22.933	0.0	-0.0021820	0.0
	29.00000	0.00000	23.00000	0.0067063	22.933	0.0	-0.0019437	0.0
	30.00000	0.00000	23.00000	0.0066829	22.933	0.0	-0.0017319	0.0
	0.00000	0.66667	23.00000	0.0047583	22.933	0.0	-0.0043420	0.0
	1.00000	0.66667	23.00000	0.0039468	22.933	0.0	-0.0049372	0.0
	2.00000	0.66667	23.00000	0.0029582	22.933	0.0	-0.0055608	0.0
	3.00000	0.66667	23.00000	0.0018246	22.933	0.0	-0.0063570	0.0
	4.00000	0.66667	23.00000	530.25E-6	22.933	0.0	-0.0071772	0.0
	5.00000	0.66667	23.00000	-884.21E-6	22.933	0.0	-0.0080562	0.0
	6.00000	0.66667	23.00000	-0.0023687	22.933	0.0	-0.0089698	0.0
	7.00000	0.66667	23.00000	-0.0038521	22.933	0.0	-0.0098805	0.0
	8.00000	0.66667	23.00000	-0.0052439	22.933	0.0	-0.0107938	0.0
	9.00000	0.66667	23.00000	-0.0064409	22.933	0.0	-0.011480	0.0
	10.00000	0.66667	23.00000	-0.0073395	22.933	0.0	-0.012041	0.0
	11.00000	0.66667	23.00000	-0.0078513	22.933	0.0	-0.012365	0.0
	12.00000	0.66667	23.00000	-0.0079207	22.933	0.0	-0.012432	0.0
	13.00000	0.66667	23.00000	-0.0075372	22.933	0.0	-0.012174	0.0
	14.00000	0.66667	23.00000	-0.0067385	22.933	0.0	-0.011675	0.0
	15.00000	0.66667	23.00000	-0.0056031	22.933	0.0	-0.010967	0.0
	16.00000	0.66667	23.00000	-0.0042345	22.933	0.0	-0.010115	0.0
	17.00000	0.66667	23.00000	-0.0027425	22.933	0.0	-0.0091879	0.0
	18.00000	0.66667	23.00000	-0.0012277	22.933	0.0	-0.0082450	0.0
	19.00000	0.66667	23.00000	228.80E-6	22.933	0.0	-0.0073314	0.0
	20.00000	0.66667	23.00000	0.0015687	22.933	0.0	-0.0064766	0.0
	21.00000	0.66667	23.00000	0.0027559	22.933	0.0	-0.0056973	0.0
	22.00000	0.66667	23.00000	0.0037730	22.933	0.0	-0.0049998	0.0
	23.00000	0.66667	23.00000	0.0046167	22.933	0.0	-0.0043837	0.0
	24.00000	0.66667	23.00000	0.0052935	22.933	0.0	-0.0038444	0.0
	25.00000	0.66667	23.00000	0.0058161	22.933	0.0	-0.0033752	0.0
	26.00000	0.66667	23.00000	0.0062007	22.933	0.0	-0.0029682	0.0
	27.00000	0.66667	23.00000	0.0064647	22.933	0.0	-0.0026161	0.0
	28.00000	0.66667	23.00000	0.0066255	22.933	0.0	-0.0023114	0.0

MGC-17-27

3A Mornington Crescent

BIA

Undrained short term movement from excavation

Drg. Ref.

 Made by
JGM

Date

Checked

Name	X [m]	Location Y [m]	Z[Level] [mOD]	Displacement Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
29.00000	0.66667	23.00000	0.0066996	22.933	0.0	-0.0020478	0.0	
30.00000	0.66667	23.00000	0.0067022	22.933	0.0	-0.0018193	0.0	
0.00000	1.33333	23.00000	0.0042310	22.933	0.0	-0.0047373	0.0	
1.00000	1.33333	23.00000	0.0032396	22.933	0.0	-0.0054297	0.0	
2.00000	1.33333	23.00000	0.0020405	22.933	0.0	-0.0062218	0.0	
3.00000	1.33333	23.00000	631.42E-6	22.933	0.0	-0.0071179	0.0	
4.00000	1.33333	23.00000	-975.01E-6	22.933	0.0	-0.0081162	0.0	
5.00000	1.33333	23.00000	-0.0027459	22.933	0.0	-0.0092044	0.0	
6.00000	1.33333	23.00000	-0.0046227	22.933	0.0	-0.010356	0.0	
7.00000	1.33333	23.00000	-0.007175	22.933	0.0	-0.011524	0.0	
8.00000	1.33333	23.00000	0.0083140	22.933	0.0	-0.012644	0.0	
9.00000	1.33333	23.00000	-0.0098744	22.933	0.0	-0.013629	0.0	
10.00000	1.33333	23.00000	-0.011056	22.933	0.0	-0.014387	0.0	
11.00000	1.33333	23.00000	-0.011735	22.933	0.0	-0.014830	0.0	
12.00000	1.33333	23.00000	-0.011830	22.933	0.0	-0.014900	0.0	
13.00000	1.33333	23.00000	-0.011326	22.933	0.0	-0.014583	0.0	
14.00000	1.33333	23.00000	-0.010275	22.933	0.0	-0.013914	0.0	
15.00000	1.33333	23.00000	-0.0087894	22.933	0.0	-0.012971	0.0	
16.00000	1.33333	23.00000	-0.0070132	22.933	0.0	-0.011851	0.0	
17.00000	1.33333	23.00000	-0.0050961	22.933	0.0	-0.010652	0.0	
18.00000	1.33333	23.00000	0.0031701	22.933	0.0	-0.0094544	0.0	
19.00000	1.33333	23.00000	-0.0013377	22.933	0.0	-0.0083147	0.0	
20.00000	1.33333	23.00000	331.56E-6	22.933	0.0	-0.0072679	0.0	
21.00000	1.33333	23.00000	0.0017982	22.933	0.0	-0.0063300	0.0	
22.00000	1.33333	23.00000	0.0010465	22.933	0.0	-0.0055141	0.0	
23.00000	1.33333	23.00000	0.0040775	22.933	0.0	-0.0047855	0.0	
24.00000	1.33333	23.00000	0.0049036	22.933	0.0	-0.0041648	0.0	
25.00000	1.33333	23.00000	0.0055437	22.933	0.0	-0.0036314	0.0	
26.00000	1.33333	23.00000	0.0060193	22.933	0.0	-0.0031739	0.0	
27.00000	1.33333	23.00000	0.0064331	22.933	0.0	-0.0027819	0.0	
28.00000	1.33333	23.00000	0.0065666	22.933	0.0	-0.0024457	0.0	
29.00000	1.33333	23.00000	0.0066800	22.933	0.0	-0.0021571	0.0	
30.00000	1.33333	23.00000	0.0067114	22.933	0.0	-0.0019088	0.0	
0.00000	2.00000	23.00000	0.0036270	22.933	0.0	-0.0051675	0.0	
1.00000	2.00000	23.00000	0.0019278	22.933	0.0	-0.0055478	0.0	
2.00000	2.00000	23.00000	970.09E-6	22.933	0.0	-0.0069082	0.0	
3.00000	2.00000	23.00000	-754.87E-6	22.933	0.0	-0.0079836	0.0	
4.00000	2.00000	23.00000	-0.0027390	22.933	0.0	-0.0092028	0.0	
5.00000	2.00000	23.00000	-0.0049491	22.933	0.0	-0.010557	0.0	
6.00000	2.00000	23.00000	-0.0079185	22.933	0.0	-0.012018	0.0	
7.00000	2.00000	23.00000	-0.0097403	22.933	0.0	-0.013534	0.0	
8.00000	2.00000	23.00000	-0.012065	22.933	0.0	-0.015014	0.0	
9.00000	2.00000	23.00000	-0.014109	22.933	0.0	-0.016343	0.0	
10.00000	2.00000	23.00000	-0.015674	22.933	0.0	-0.017384	0.0	
11.00000	2.00000	23.00000	-0.016582	22.933	0.0	-0.018134	0.0	
12.00000	2.00000	23.00000	-0.016715	22.933	0.0	-0.018111	0.0	
13.00000	2.00000	23.00000	-0.016047	22.933	0.0	-0.017680	0.0	
14.00000	2.00000	23.00000	-0.014656	22.933	0.0	-0.016766	0.0	
15.00000	2.00000	23.00000	-0.012702	22.933	0.0	-0.015489	0.0	
16.00000	2.00000	23.00000	-0.010389	22.933	0.0	-0.013829	0.0	
17.00000	2.00000	23.00000	-0.0079213	22.933	0.0	-0.012425	0.0	
18.00000	2.00000	23.00000	-0.0054742	22.933	0.0	-0.010889	0.0	
19.00000	2.00000	23.00000	-0.0031752	22.933	0.0	-0.0094585	0.0	
20.00000	2.00000	23.00000	-0.0011051	22.933	0.0	-0.0081731	0.0	
21.00000	2.00000	23.00000	695.28E-6	22.933	0.0	-0.0070396	0.0	
22.00000	2.00000	23.00000	0.0022149	22.933	0.0	-0.0060607	0.0	
23.00000	2.00000	23.00000	0.0034625	22.933	0.0	-0.0052224	0.0	
24.00000	2.00000	23.00000	0.0044590	22.933	0.0	-0.0045088	0.0	
25.00000	2.00000	23.00000	0.0052314	22.933	0.0	-0.0039033	0.0	
26.00000	2.00000	23.00000	0.0058088	22.933	0.0	-0.0033823	0.0	
27.00000	2.00000	23.00000	0.0062198	22.933	0.0	-0.0029543	0.0	
28.00000	2.00000	23.00000	0.0064914	22.933	0.0	-0.0025843	0.0	
29.00000	2.00000	23.00000	0.0066478	22.933	0.0	-0.0022690	0.0	
30.00000	2.00000	23.00000	0.0067106	22.933	0.0	-0.0019998	0.0	
0.00000	2.66667	23.00000	0.0019449	22.933	0.0	-0.0056348	0.0	
1.00000	2.66667	23.00000	0.0015070	22.933	0.0	-0.0065705	0.0	
2.00000	2.66667	23.00000	-251.69E-6	22.933	0.0	-0.0076749	0.0	
3.00000	2.66667	23.00000	-0.0023507	22.933	0.0	-0.0089672	0.0	
4.00000	2.66667	23.00000	-0.0047902	22.933	0.0	-0.010461	0.0	
5.00000	2.66667	23.00000	-0.0075408	22.933	0.0	-0.012155	0.0	
6.00000	2.66667	23.00000	-0.010530	22.933	0.0	-0.014025	0.0	
7.00000	2.66667	23.00000	-0.013629	22.933	0.0	-0.016008	0.0	
8.00000	2.66667	23.00000	-0.016649	22.933	0.0	-0.017993	0.0	
9.00000	2.66667	23.00000	-0.019342	22.933	0.0	-0.019817	0.0	
10.00000	2.66667	23.00000	-0.021432	22.933	-1.1174E-6	-0.021276	0.0	
11.00000	2.66667	23.00000	-0.022661	22.933	-1.2072E-6	-0.022165	0.0	
12.00000	2.66667	23.00000	-0.022851	22.933	-1.2315E-6	-0.022333	0.0	
13.00000	2.66667	23.00000	-0.021960	22.933	-1.1824E-6	-0.021735	0.0	
14.00000	2.66667	23.00000	-0.020103	22.933	-1.0701E-6	-0.020458	0.0	
15.00000	2.66667	23.00000	-0.017513	22.933	0.0	-0.018639	0.0	
16.00000	2.66667	23.00000	-0.014485	22.933	0.0	-0.016667	0.0	
17.00000	2.66667	23.00000	-0.011301	22.933	0.0	-0.014585	0.0	
18.00000	2.66667	23.00000	-0.0081917	22.933	0.0	-0.012597	0.0	
19.00000	2.66667	23.00000	-0.0053137	22.933	0.0	-0.010790	0.0	
20.00000	2.66667	23.00000	-0.0027575	22.933	0.0	-0.009123	0.0	
21.00000	2.66667	23.00000	-560.77E-6	22.933	0.0	-0.0078328	0.0	
22.00000	2.66667	23.00000	0.0012751	22.933	0.0	-0.0066722	0.0	
23.00000	2.66667	23.00000	0.0027712	22.933	0.0	-0.0056952	0.0	
24.00000	2.66667	23.00000	0.0039603	22.933	0.0	-0.0048760	0.0	
25.00000	2.66667	23.00000	0.0049039	22.933	0.0	-0.0041902	0.0	
26.00000	2.66667	23.00000	0.0055702	22.933	0.0	-0.0036152	0.0	
27.00000	2.66667	23.00000	0.0060659	22.933	0.0	-0.0031326	0.0	
28.00000	2.66667	23.00000	0.0064006	22.933	0.0	-0.0027263	0.0	
29.00000	2.66667	23.00000	0.0066037	22.933	0.0	-0.0023830	0.0	
30.00000	2.66667	23.00000	0.0067004	22.933	0.0	-0.0020918	0.0	
0.00000	3.33333	23.00000	0.0021849	22.933	0.0	-0.0061365	0.0	
1.00000	3.33333	23.00000	475.62E-6	22.933	0.0	-0.0072241	0.0	
2.00000	3.33333	23.00000	-0.0016311	22.933	0.0	-0.0085279	0.0	
3.00000	3.33333	23.00000	-0.0041702	22.933	0.0	-0.010082	0.0	
4.00000	3.33333	23.00000	-0.0071568	22.933	0.0	-0.011915	0.0	
5.00000	3.33333	23.00000	-0.010571	22.933	0.0	-0.014045	0.0	
6.00000	3.33333	23.00000	-0.014339	22.933	0.0	-0.016454	0.0	
7.00000	3.33333	23.00000	-0.018313	22.933	0.0	-0.019078	0.0	
8.00000	3.33333	23.00000	-0.022253	22.933	-1.1457E-6	-0.021778	0.0	
9.00000	3.33333	23.00000	-0.025830	22.933	-1.3932E-6	-0.024327	0.0	
10.00000	3.33333	23.00000	-0.028652	22.933	-1.6178E-6	-0.026421	0.0	
11.00000	3.33333	23.00000	-0.030338	22.933	-1.7739E-6	-0.027733	0.0	
12.00000	3.33333	23.00000	-0.030615	22.933	-1.8197E-6	-0.028003	0.0	
13.00000	3.33333	23.00000	-0.029415	22.933	-1.7382E-6	-0.027153	0.0	
14.00000	3.33333	23.00000	-0.026906	22.933	-1.5490E-6	-0.025325	0.0	
15.00000	3.33333	23.00000	-0.023442	22.933	-1.2985E-6	-0.022829	0.0	
16.00000	3.33333	23.00000	-0.019452	22.933	-1.0370E-6	-0.020030	0.0	
17.00000	3.33333	23.00000	-0.015330	22.933	0.0	-0.017231	0.0	
18.00000	3.33333	23.00000	-0.011378	22.933	0.0	-0.014634	0.0	
19.00000	3.33333	23.00000	-0.007724	22.933	0.0	-0.012138	0.0	
20.00000	3.33333	23.00000	-0.0046391	22.933	0.0	-0.010370	0.0	
21.00000	3.33333	23.00000	-0.0019747	22.933	0.0	-0.0087157	0.0	
22.00000	3.33333	23.00000	226.97E-6	22.933	0.0	-0.0073405	0.0	
23.00000	3.33333	23.00000	0.0020052	22.933	0.0	-0.0062035	0.0	
24.00000	3.33333	23.00000	0.0028398	22.933	0.0	-0.0052659	0.0	
25.00000	3.33333							

Name	X [m]	Location Y [m]	Z [Level] [mOD]	Displacement Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
15.00000	4.00000	23.00000	-0.030774	22.933	-1.8819E-6	-0.028255	0.0	
16.00000	4.00000	23.00000	-0.025473	22.933	-1.4504E-6	-0.024307	0.0	
17.00000	4.00000	23.00000	-0.020115	22.933	-1.0784E-6	-0.020490	0.0	
18.00000	4.00000	23.00000	-0.015087	22.933	0.0	-0.017066	0.0	
19.00000	4.00000	23.00000	-0.010606	22.933	0.0	-0.014134	0.0	
20.00000	4.00000	23.00000	-0.0067585	22.933	0.0	-0.011693	0.0	
21.00000	4.00000	23.00000	-0.0035467	22.933	0.0	-0.0096922	0.0	
22.00000	4.00000	23.00000	-926.34E-6	22.933	0.0	-0.0080654	0.0	
23.00000	4.00000	23.00000	0.0011689	22.933	0.0	-0.0067458	0.0	
24.00000	4.00000	23.00000	0.0028119	22.933	0.0	-0.0056744	0.0	
25.00000	4.00000	23.00000	0.0040734	22.933	0.0	-0.0048019	0.0	
26.00000	4.00000	23.00000	0.0050183	22.933	0.0	-0.0040883	0.0	
27.00000	4.00000	23.00000	0.0057036	22.933	0.0	-0.0035016	0.0	
28.00000	4.00000	23.00000	0.0061783	22.933	0.0	-0.0030166	0.0	
29.00000	4.00000	23.00000	0.0064838	22.933	0.0	-0.0026133	0.0	
30.00000	4.00000	23.00000	0.0066546	22.933	0.0	-0.0022760	0.0	
0.00000	4.66667	23.00000	445.44E-6	22.933	0.0	-0.0072464	0.0	
1.00000	4.66667	23.00000	-0.0019107	22.933	0.0	-0.0087025	0.0	
2.00000	4.66667	23.00000	-0.0048687	22.933	0.0	-0.010511	0.0	
3.00000	4.66667	23.00000	-0.0085177	22.933	0.0	-0.012757	0.0	
4.00000	4.66667	23.00000	-0.012932	22.933	0.0	-0.015533	0.0	
5.00000	4.66667	23.00000	-0.018148	22.933	0.0	-0.018931	0.0	
6.00000	4.66667	23.00000	-0.024128	22.933	-1.2401E-6	-0.023009	0.0	
7.00000	4.66667	23.00000	-0.030705	22.933	-1.7130E-6	-0.027748	0.0	
8.00000	4.66667	23.00000	-0.037929	22.933	-2.3148E-6	-0.033296	0.0	
9.00000	4.66667	23.00000	-0.044019	22.933	-3.0164E-6	-0.038279	0.0	
10.00000	4.66667	23.00000	-0.049381	22.933	-3.7248E-6	-0.042963	0.0	
11.00000	4.66667	23.00000	-0.052737	22.933	-4.2733E-6	-0.046121	0.0	
12.00000	4.66667	23.00000	-0.053385	22.933	-4.4688E-6	-0.046923	0.0	
13.00000	4.66667	23.00000	-0.051077	22.933	-4.2112E-6	-0.045144	0.0	
14.00000	4.66667	23.00000	-0.046313	22.933	-3.5857E-6	-0.040914	0.0	
15.00000	4.66667	23.00000	-0.039876	22.933	-2.8060E-6	-0.035499	0.0	
16.00000	4.66667	23.00000	-0.032768	22.933	-2.0684E-6	-0.029805	0.0	
17.00000	4.66667	23.00000	-0.025771	22.933	-1.4711E-6	-0.024521	0.0	
18.00000	4.66667	23.00000	-0.018577	22.933	-1.0287E-6	-0.019467	0.0	
19.00000	4.66667	23.00000	-0.013803	22.933	0.0	-0.016209	0.0	
20.00000	4.66667	23.00000	-0.0091166	22.933	0.0	-0.013179	0.0	
21.00000	4.66667	23.00000	-0.0052709	22.933	0.0	-0.010763	0.0	
22.00000	4.66667	23.00000	-0.0021768	22.933	0.0	-0.0088445	0.0	
23.00000	4.66667	23.00000	270.94E-6	22.933	0.0	-0.0071434	0.0	
24.00000	4.66667	23.00000	0.0021731	22.933	0.0	-0.0061003	0.0	
25.00000	4.66667	23.00000	0.0036263	22.933	0.0	-0.0051223	0.0	
26.00000	4.66667	23.00000	0.0047121	22.933	0.0	-0.0043320	0.0	
27.00000	4.66667	23.00000	0.0055007	22.933	0.0	-0.0036890	0.0	
28.00000	4.66667	23.00000	0.0060507	22.933	0.0	-0.0031622	0.0	
29.00000	4.66667	23.00000	0.0064108	22.933	0.0	-0.0027276	0.0	
30.00000	4.66667	23.00000	0.0066209	22.933	0.0	-0.0023665	0.0	
0.00000	5.33333	23.00000	-519.39E-6	22.933	0.0	-0.0078474	0.0	
1.00000	5.33333	23.00000	-0.0032507	22.933	0.0	-0.0095231	0.0	
2.00000	5.33333	23.00000	-0.0067158	22.933	0.0	-0.011644	0.0	
3.00000	5.33333	23.00000	-0.011047	22.933	0.0	-0.014335	0.0	
4.00000	5.33333	23.00000	-0.016372	22.933	0.0	-0.017749	0.0	
5.00000	5.33333	23.00000	-0.022786	22.933	-1.1478E-6	-0.022054	0.0	
6.00000	5.33333	23.00000	-0.030307	22.933	-1.6649E-6	-0.027404	0.0	
7.00000	5.33333	23.00000	-0.038797	22.933	-2.3996E-6	-0.033622	0.0	
8.00000	5.33333	23.00000	-0.047862	22.933	-3.3948E-6	-0.041338	0.0	
9.00000	5.33333	23.00000	-0.056755	22.933	-4.6374E-6	-0.049240	0.0	
10.00000	5.33333	23.00000	-0.064340	22.933	-5.9987E-6	-0.056591	0.0	
11.00000	5.33333	23.00000	-0.069249	22.933	-7.1183E-6	-0.061816	0.0	
12.00000	5.33333	23.00000	-0.071925	22.933	-7.5726E-6	-0.063114	0.0	
13.00000	5.33333	23.00000	-0.067062	22.933	-7.0716E-6	-0.060356	0.0	
14.00000	5.33333	23.00000	-0.060224	22.933	-5.8150E-6	-0.053751	0.0	
15.00000	5.33333	23.00000	-0.051229	22.933	-4.3221E-6	-0.045357	0.0	
16.00000	5.33333	23.00000	-0.041595	22.933	-3.0102E-6	-0.036938	0.0	
17.00000	5.33333	23.00000	-0.032415	22.933	-2.0285E-6	-0.029514	0.0	
18.00000	5.33333	23.00000	-0.024275	22.933	-1.3529E-6	-0.023415	0.0	
19.00000	5.33333	23.00000	-0.017377	22.933	0.0	-0.018589	0.0	
20.00000	5.33333	23.00000	-0.011703	22.933	0.0	-0.014833	0.0	
21.00000	5.33333	23.00000	-0.0071333	22.933	0.0	-0.011925	0.0	
22.00000	5.33333	23.00000	-0.0035110	22.933	0.0	-0.0094721	0.0	
23.00000	5.33333	23.00000	-679.78E-6	22.933	0.0	-0.0079163	0.0	
24.00000	5.33333	23.00000	0.0015026	22.933	0.0	-0.0065382	0.0	
25.00000	5.33333	23.00000	0.0031589	22.933	0.0	-0.0054475	0.0	
26.00000	5.33333	23.00000	0.0043923	22.933	0.0	-0.0045767	0.0	
27.00000	5.33333	23.00000	0.0052881	22.933	0.0	-0.0038755	0.0	
28.00000	5.33333	23.00000	0.0059157	22.933	0.0	-0.0033060	0.0	
29.00000	5.33333	23.00000	0.0063317	22.933	0.0	-0.0028397	0.0	
30.00000	5.33333	23.00000	0.0065818	22.933	0.0	-0.0024548	0.0	
0.00000	6.00000	23.00000	-0.0015317	22.933	0.0	-0.0084717	0.0	
1.00000	6.00000	23.00000	-0.003597	22.933	0.0	-0.010390	0.0	
2.00000	6.00000	23.00000	-0.0086951	22.933	0.0	-0.012865	0.0	
3.00000	6.00000	23.00000	-0.013797	22.933	0.0	-0.016078	0.0	
4.00000	6.00000	23.00000	-0.020179	22.933	0.0	-0.020266	0.0	
5.00000	6.00000	23.00000	-0.028030	22.933	-1.4867E-6	-0.025720	0.0	
6.00000	6.00000	23.00000	-0.037470	22.933	-2.2503E-6	-0.032761	0.0	
7.00000	6.00000	23.00000	-0.048446	22.933	-3.4070E-6	-0.041659	0.0	
8.00000	6.00000	23.00000	-0.060567	22.933	-5.0922E-6	-0.052444	0.0	
9.00000	6.00000	23.00000	-0.072908	22.933	-7.3758E-6	-0.064580	0.0	
10.00000	6.00000	23.00000	-0.083864	22.933	-10.098E-6	-0.076563	1.1705E-6	
11.00000	6.00000	23.00000	-0.091272	22.933	-12.625E-6	-0.088192	1.3100E-6	
12.00000	6.00000	23.00000	-0.093045	22.933	-13.797E-6	-0.088696	1.3559E-6	
13.00000	6.00000	23.00000	-0.088331	22.933	-12.739E-6	-0.083799	1.2811E-6	
14.00000	6.00000	23.00000	-0.078295	22.933	-9.9724E-6	-0.072633	1.1104E-6	
15.00000	6.00000	23.00000	-0.065458	22.933	-6.9076E-6	-0.059052	0.0	
16.00000	6.00000	23.00000	-0.052042	22.933	-4.4708E-6	-0.046265	0.0	
17.00000	6.00000	23.00000	-0.040151	22.933	-2.8217E-6	-0.035690	0.0	
18.00000	6.00000	23.00000	-0.029812	22.933	-1.7819E-6	-0.027483	0.0	
19.00000	6.00000	23.00000	-0.021313	22.933	-1.1410E-6	-0.021287	0.0	
20.00000	6.00000	23.00000	-0.014494	22.933	0.0	-0.016648	0.0	
21.00000	6.00000	23.00000	-0.009397	22.933	0.0	-0.013159	0.0	
22.00000	6.00000	23.00000	-0.0049086	22.933	0.0	-0.010538	0.0	
23.00000	6.00000	23.00000	-0.0016650	22.933	0.0	-0.0085310	0.0	
24.00000	6.00000	23.00000	812.10E-6	22.933	0.0	-0.0069819	0.0	
25.00000	6.00000	23.00000	0.0026798	22.933	0.0	-0.0057730	0.0	
26.00000	6.00000	23.00000	0.0040551	22.933	0.0	-0.0048192	0.0	
27.00000	6.00000	23.00000	0.0050701	22.933	0.0	-0.0040586	0.0	
28.00000	6.00000	23.00000	0.0057763	22.933	0.0	-0.0034461	0.0	
29.00000	6.00000	23.00000	0.0062486	22.933	0.0	-0.0029482	0.0	
30.00000	6.00000	23.00000	0.0065388	22.933	0.0	-0.0025398	0.0	
0.00000	6.66667	23.00000	-0.001745	22.933	0.0	-0.0091108	0.0	
1.00000	6.66667	23.00000	-0.0061456	22.933	0.0	-0.011293	0.0	
2.00000	6.66667	23.00000	-0.010779	22.933	0.0	-0.014163	0.0	
3.00000	6.66667	23.00000	-0.016739	22.933	0.0	-0.017977	0.0	
4.00000	6.66667	23.00000	-0.024330	22.933	-1.2336E-6	-0.023091	0.0	
5.00000	6.66667	23.00000	-0.033882	22.933	-1.9252E-6	-0.029595	0.0	
6.00000	6.66667	23.00000	-0.045690	22.933	-3.0563E-6	-0.039265	0.0	
7.00000	6.66667	23.00000	-0.059883	22.933	-4.8984E-6	-0.051597	0.0	
8.00000	6.66667	23.00000	-0.076185	22.933	-7.8196E-6	-0.067450	1.0312E-6	
9.00000	6.66667	23.00000	-0.093542	22.933				

MGC-17-27

3A Mornington Crescent

BIA

Undrained short term movement from excavation

Drg. Ref.

 Made by
JGM

Date

Checked

Name	X [m]	Location Y [m]	Z[Level] [MOD]	Displacement Z [mm]	Calc Level [MOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
1.00000	7.33333	23.00000	-0.0076494	22.933	0.0	-0.012217	0.0	
2.00000	7.33333	23.00000	-0.012930	22.933	0.0	-0.015519	0.0	
3.00000	7.33333	23.00000	-0.019824	22.933	0.0	-0.020012	0.0	
4.00000	7.33333	23.00000	-0.028772	22.933	-1.5268E-6	-0.026213	0.0	
5.00000	7.33333	23.00000	-0.040303	22.933	-2.4850E-6	-0.034802	0.0	
6.00000	7.33333	23.00000	-0.054992	22.933	-4.1592E-6	-0.047094	0.0	
7.00000	7.33333	23.00000	-0.073318	22.933	-7.1190E-6	-0.064259	0.0	
8.00000	7.33333	23.00000	-0.095342	22.933	-12.301E-6	-0.087887	1.3436E-6	
9.00000	7.33333	23.00000	-0.12008	22.933	-20.995E-6	-0.11873	1.8150E-6	
10.00000	7.33333	23.00000	-0.14846	22.933	-34.423E-6	-0.15502	2.3693E-6	
11.00000	7.33333	23.00000	-0.16370	22.933	-51.847E-6	-0.18945	2.8951E-6	
12.00000	7.33333	23.00000	-0.16990	22.933	-64.247E-6	-0.20594	3.1467E-6	
13.00000	7.33333	23.00000	-0.15867	22.933	-57.301E-6	-0.18921	2.8913E-6	
14.00000	7.33333	23.00000	-0.13420	22.933	-36.993E-6	-0.14845	2.2688E-6	
15.00000	7.33333	23.00000	-0.10588	22.933	-20.005E-6	-0.10656	1.6289E-6	
16.00000	7.33333	23.00000	-0.080125	22.933	-10.378E-6	-0.074528	1.1394E-6	
17.00000	7.33333	23.00000	-0.059074	22.933	-5.5082E-6	-0.052453	0.0	
18.00000	7.33333	23.00000	-0.042638	22.933	-3.0525E-6	-0.037616	0.0	
19.00000	7.33333	23.00000	-0.030052	22.933	-1.7716E-6	-0.027580	0.0	
20.00000	7.33333	23.00000	-0.020489	22.933	-1.0737E-6	-0.020671	0.0	
21.00000	7.33333	23.00000	-0.013248	22.933	0.0	-0.015813	0.0	
22.00000	7.33333	23.00000	-0.0077780	22.933	0.0	-0.012324	0.0	
23.00000	7.33333	23.00000	-0.0036575	22.933	0.0	-0.0097656	0.0	
24.00000	7.33333	23.00000	-568.81E-6	22.933	0.0	-0.0078546	0.0	
25.00000	7.33333	23.00000	-0.017288	22.933	0.0	-0.0064232	0.0	
26.00000	7.33333	23.00000	-0.0034182	22.933	0.0	-0.0052812	0.0	
27.00000	7.33333	23.00000	0.0046391	22.933	0.0	-0.0044034	0.0	
28.00000	7.33333	23.00000	0.0054988	22.933	0.0	-0.0037072	0.0	
29.00000	7.33333	23.00000	0.0060802	22.933	0.0	-0.0031486	0.0	
30.00000	7.33333	23.00000	0.006478	22.933	0.0	-0.0026909	0.0	
0.00000	8.00000	23.00000	-0.0046627	22.933	0.0	-0.010386	0.0	
1.00000	8.00000	23.00000	-0.0091450	22.933	0.0	-0.013142	0.0	
2.00000	8.00000	23.00000	-0.015097	22.933	0.0	-0.016904	0.0	
3.00000	8.00000	23.00000	-0.022982	22.933	-1.1449E-6	-0.022144	0.0	
4.00000	8.00000	23.00000	-0.034416	22.933	-1.8725E-6	-0.029551	0.0	
5.00000	8.00000	23.00000	-0.047197	22.933	-3.1851E-6	-0.040399	0.0	
6.00000	8.00000	23.00000	-0.065320	22.933	-5.6480E-6	-0.056378	0.0	
7.00000	8.00000	23.00000	-0.088881	22.933	-10.426E-6	-0.080288	1.2275E-6	
8.00000	8.00000	23.00000	-0.11870	22.933	-19.831E-6	-0.11591	1.7719E-6	
9.00000	8.00000	23.00000	-0.15438	22.933	-37.951E-6	-0.16712	2.5542E-6	
10.00000	8.00000	23.00000	-0.19265	22.933	-71.190E-6	-0.23494	3.5900E-6	
11.00000	8.00000	23.00000	-0.22558	22.933	-128.09E-6	-0.31166	4.7608E-6	
12.00000	8.00000	23.00000	-0.23898	22.933	-185.98E-6	-0.36068	5.5078E-6	
13.00000	8.00000	23.00000	-0.22009	22.933	-160.72E-6	-0.32364	4.9425E-6	
14.00000	8.00000	23.00000	-0.17816	22.933	-83.894E-6	-0.22909	3.4999E-6	
15.00000	8.00000	23.00000	-0.13402	22.933	-36.200E-6	-0.14757	2.2553E-6	
16.00000	8.00000	23.00000	-0.097656	22.933	-15.973E-6	-0.095140	1.4544E-6	
17.00000	8.00000	23.00000	-0.070080	22.933	-7.6131E-6	-0.063259	0.0	
18.00000	8.00000	23.00000	-0.049677	22.933	-3.9226E-6	-0.043585	0.0	
19.00000	8.00000	23.00000	-0.034000	22.933	-2.1631E-6	-0.031949	0.0	
20.00000	8.00000	23.00000	-0.023537	22.933	-1.2633E-6	-0.022781	0.0	
21.00000	8.00000	23.00000	-0.015301	22.933	0.0	-0.017148	0.0	
22.00000	8.00000	23.00000	-0.0091742	22.933	0.0	-0.013198	0.0	
23.00000	8.00000	23.00000	-0.0046131	22.933	0.0	-0.010356	0.0	
24.00000	8.00000	23.00000	-0.0012349	22.933	0.0	-0.0056840	0.0	
25.00000	8.00000	23.00000	-0.0012810	22.933	0.0	-0.0066929	0.0	
26.00000	8.00000	23.00000	0.0031149	22.933	0.0	-0.0054918	0.0	
27.00000	8.00000	23.00000	0.0044372	22.933	0.0	-0.0045589	0.0	
28.00000	8.00000	23.00000	0.0053684	22.933	0.0	-0.0038239	0.0	
29.00000	8.00000	23.00000	0.0060002	22.933	0.0	-0.0032375	0.0	
30.00000	8.00000	23.00000	0.0064032	22.933	0.0	-0.0027642	0.0	
0.00000	8.66667	23.00000	-0.0056543	22.933	0.0	-0.010992	0.0	
1.00000	8.66667	23.00000	-0.010590	22.933	0.0	-0.014042	0.0	
2.00000	8.66667	23.00000	-0.017217	22.933	0.0	-0.018281	0.0	
3.00000	8.66667	23.00000	-0.026123	22.933	-1.3400E-6	-0.024131	0.0	
4.00000	8.66667	23.00000	-0.038131	22.933	-2.2669E-6	-0.033144	0.0	
5.00000	8.66667	23.00000	-0.054391	22.933	-4.0340E-6	-0.046446	0.0	
6.00000	8.66667	23.00000	-0.076493	22.933	-7.6087E-6	-0.067131	1.0264E-6	
7.00000	8.66667	23.00000	-0.10653	22.933	-15.305E-6	-0.10027	1.5329E-6	
8.00000	8.66667	23.00000	-0.14488	22.933	-22.761E-6	-0.15448	2.3603E-6	
9.00000	8.66667	23.00000	-0.19883	22.933	-72.758E-6	-0.24188	3.6961E-6	
10.00000	8.66667	23.00000	-0.25989	22.933	-161.90E-6	-0.37507	5.7290E-6	
11.00000	8.66667	23.00000	-0.32023	22.933	-388.60E-6	-0.56694	8.6531E-6	
12.00000	8.66667	23.00000	-0.35375	22.933	-804.40E-6	-0.75745	11.548E-6	
13.00000	8.66667	23.00000	-0.31867	22.933	-652.53E-6	-0.65262	9.9514E-6	
14.00000	8.66667	23.00000	-0.23931	22.933	-220.41E-6	-0.37778	5.7678E-6	
15.00000	8.66667	23.00000	-0.16839	22.933	-66.890E-6	-0.20670	3.1582E-6	
16.00000	8.66667	23.00000	-0.11725	22.933	-24.218E-6	-0.12066	1.8443E-6	
17.00000	8.66667	23.00000	-0.081678	22.933	-10.287E-6	-0.075426	1.1531E-6	
18.00000	8.66667	23.00000	-0.056807	22.933	-4.9280E-6	-0.049900	0.0	
19.00000	8.66667	23.00000	-0.039161	22.933	-2.5874E-6	-0.034564	0.0	
20.00000	8.66667	23.00000	-0.026475	22.933	-1.4596E-6	-0.024852	0.0	
21.00000	8.66667	23.00000	-0.017249	22.933	0.0	-0.018429	0.0	
22.00000	8.66667	23.00000	-0.010485	22.933	0.0	-0.014023	0.0	
23.00000	8.66667	23.00000	-0.005024	22.933	0.0	-0.010405	0.0	
24.00000	8.66667	23.00000	-0.0018298	22.933	0.0	-0.0086408	0.0	
25.00000	8.66667	23.00000	868.81E-6	22.933	0.0	-0.0069580	0.0	
26.00000	8.66667	23.00000	0.0028366	22.933	0.0	-0.0056825	0.0	
27.00000	8.66667	23.00000	0.0042522	22.933	0.0	-0.0046989	0.0	
28.00000	8.66667	23.00000	0.0052487	22.933	0.0	-0.0039208	0.0	
29.00000	8.66667	23.00000	0.0059265	22.933	0.0	-0.0033168	0.0	
30.00000	8.66667	23.00000	0.0063617	22.933	0.0	-0.0028252	0.0	
0.00000	9.33333	23.00000	-0.0065707	22.933	0.0	-0.011553	0.0	
1.00000	9.33333	23.00000	-0.011938	22.933	0.0	-0.014889	0.0	
2.00000	9.33333	23.00000	-0.019218	22.933	0.0	-0.019490	0.0	
3.00000	9.33333	23.00000	-0.029134	22.933	-1.5439E-6	-0.026448	0.0	
4.00000	9.33333	23.00000	-0.042745	22.933	-2.6977E-6	-0.036741	0.0	
5.00000	9.33333	23.00000	-0.061624	22.933	-5.0188E-6	-0.052829	0.0	
6.00000	9.33333	23.00000	-0.088147	22.933	-10.086E-6	-0.079143	1.2100E-6	
7.00000	9.33333	23.00000	-0.12590	22.933	-22.308E-6	-0.12449	1.9029E-6	
8.00000	9.33333	23.00000	-0.18003	22.933	-55.281E-6	-0.20694	3.1625E-6	
9.00000	9.33333	23.00000	-0.25636	22.933	-151.79E-6	-0.36162	5.5238E-6	
10.00000	9.33333	23.00000	-0.35599	22.933	-421.01E-6	-0.63916	9.7562E-6	
11.00000	9.33333	23.00000	-0.47190	22.933	-0.0015654	-1.1784	17.951E-6	
12.00000	9.33333	23.00000	-0.57722	22.933	-0.0089042	-2.3951	36.223E-6	
13.00000	9.33333	23.00000	-0.49869	22.933	-0.0061366	-1.8723	28.354E-6	
14.00000	9.33333	23.00000	-0.32343	22.933	-664.31E-6	-0.66305	10.110E-6	
15.00000	9.33333	23.00000	-0.20814	22.933	-120.27E-6	-0.28684	4.3815E-6	
16.00000	9.33333	23.00000	-0.13788	22.933	-35.217E-6	-0.15007	2.2935E-6	
17.00000	9.33333	23.00000	-0.08223	22.933	-13.390E-6	-0.088226	1.3489E-6	
18.00000	9.33333	23.00000	-0.063629	22.933	-6.0001E-6	-0.056177	0.0	
19.00000	9.33333	23.00000	-0.043382	22.933	-3.0153E-6	-0.037926	0.0	
20.00000	9.33333	23.00000	-0.029172	22.933	-1.6501E-6	-0.026783	0.0	
21.00000	9.33333	23.00000	-0.019015	22.933	0.0	-0.019600	0.0	
22.00000	9.33333	23.00000	-0.011661	22.933	0.0	-0.014766	0.0	
23.00000	9.33333	23.00000	-0.0062946	22.933				

MGC-17-27

3A Mornington Crescent

BIA

Undrained short term movement from excavation

Drg. Ref.

 Made by
JGM

Date

Checked

Name	X [m]	Location Y [m]	Z [Level] [mOD]	Displacement Z [mm]	Calc Level [mOD]	Stresses	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
18.00000	10.00000	23.00000	-0.069693	22.933	-7.0219E-6	-0.061888	0.0	0.0	
19.00000	10.00000	23.00000	-0.047059	22.933	-3.4065E-6	-0.040900	0.0	0.0	
20.00000	10.00000	23.00000	-0.031489	22.933	-1.8194E-6	-0.028457	0.0	0.0	
21.00000	10.00000	23.00000	-0.020517	22.933	-1.0450E-6	-0.020601	0.0	0.0	
22.00000	10.00000	23.00000	-0.012654	22.933	0.0	-0.015395	0.0	0.0	
23.00000	10.00000	23.00000	-0.0069600	22.933	0.0	-0.011806	0.0	0.0	
24.00000	10.00000	23.00000	-0.0028156	22.933	0.0	-0.0092513	0.0	0.0	
25.00000	10.00000	23.00000	201.78E-6	22.933	0.0	-0.0073836	0.0	0.0	
26.00000	10.00000	23.00000	0.0023879	22.933	0.0	-0.0059865	0.0	0.0	
27.00000	10.00000	23.00000	0.0044543	22.933	0.0	-0.0049200	0.0	0.0	
28.00000	10.00000	23.00000	0.0050563	22.933	0.0	-0.0040932	0.0	0.0	
29.00000	10.00000	23.00000	0.0058076	22.933	0.0	-0.0034412	0.0	0.0	
30.00000	10.00000	23.00000	0.0062942	22.933	0.0	-0.0029206	0.0	0.0	
0.00000	10.66667	23.00000	-0.0080534	22.933	0.0	-0.012466	0.0	0.0	
1.00000	10.66667	23.00000	-0.014345	22.933	0.0	-0.016293	0.0	0.0	
2.00000	10.66667	23.00000	-0.022544	22.933	-1.1178E-6	-0.021842	0.0	0.0	
3.00000	10.66667	23.00000	-0.034243	22.933	-1.9316E-6	-0.030189	0.0	0.0	
4.00000	10.66667	23.00000	-0.050790	22.933	-3.5661E-6	-0.043319	0.0	0.0	
5.00000	10.66667	23.00000	-0.074709	22.933	-7.1692E-6	-0.065169	0.0	0.0	
6.00000	10.66667	23.00000	-0.11035	22.933	-16.176E-6	-0.10429	1.5943E-6	0.0	
7.00000	10.66667	23.00000	-0.16570	22.933	-43.212E-6	-0.18178	2.7782E-6	0.0	
8.00000	10.66667	23.00000	-0.25692	22.933	-152.66E-6	-0.36081	5.5113E-6	0.0	
9.00000	10.66667	23.00000	-0.42082	22.933	-958.11E-6	-0.90480	13.794E-6	0.0	
10.00000	10.66667	23.00000	-0.74088	22.933	-0.020956	-3.5942	54.009E-6	0.0	
11.00000	10.66667	23.00000	-1.56667	22.933	-0.052440	-7.6932	115.26E-6	0.0	
12.00000	10.66667	23.00000	-2.1969	22.933	-59.860	-163.13	251.52E-6	0.0	
13.00000	10.66667	23.00000	-1.5124	22.933	-29.993	-85.584	67.205E-6	0.0	
14.00000	10.66667	23.00000	-0.52398	22.933	-0.0029528	-1.5982	24.308E-6	0.0	
15.00000	10.66667	23.00000	-0.28518	22.933	-264.04E-6	-0.46486	7.0976E-6	0.0	
16.00000	10.66667	23.00000	-0.17400	22.933	-58.571E-6	-0.21639	3.1418E-6	0.0	
17.00000	10.66667	23.00000	-0.11226	22.933	-19.175E-6	-0.11033	1.6865E-6	0.0	
18.00000	10.66667	23.00000	-0.074503	22.933	-7.8461E-6	-0.066442	1.0158E-6	0.0	
19.00000	10.66667	23.00000	-0.049945	22.933	-3.7156E-6	-0.043238	0.0	0.0	
20.00000	10.66667	23.00000	-0.033296	22.933	-1.9514E-6	-0.029761	0.0	0.0	
21.00000	10.66667	23.00000	-0.024581	22.933	-1.1073E-6	-0.021377	0.0	0.0	
22.00000	10.66667	23.00000	-0.013421	22.933	0.0	-0.015879	0.0	0.0	
23.00000	10.66667	23.00000	-0.0074725	22.933	0.0	-0.012122	0.0	0.0	
24.00000	10.66667	23.00000	-0.0031605	22.933	0.0	-0.0094643	0.0	0.0	
25.00000	10.66667	23.00000	-30.657E-6	22.933	0.0	-0.0075315	0.0	0.0	
26.00000	10.66667	23.00000	0.0023220	22.933	0.0	-0.0069177	0.0	0.0	
27.00000	10.66667	23.00000	0.0038515	22.933	0.0	-0.0049971	0.0	0.0	
28.00000	10.66667	23.00000	0.0049898	22.933	0.0	-0.0041499	0.0	0.0	
29.00000	10.66667	23.00000	0.0057666	22.933	0.0	-0.0034840	0.0	0.0	
30.00000	10.66667	23.00000	0.0062710	22.933	0.0	-0.0029533	0.0	0.0	
0.00000	11.33333	23.00000	-0.0085262	22.933	0.0	-0.012791	0.0	0.0	
1.00000	11.33333	23.00000	-0.014910	22.933	0.0	-0.016787	0.0	0.0	
2.00000	11.33333	23.00000	-0.023715	22.933	-1.1899E-6	-0.022649	0.0	0.0	
3.00000	11.33333	23.00000	-0.036074	22.933	-2.0864E-6	-0.031575	0.0	0.0	
4.00000	11.33333	23.00000	-0.053743	22.933	-3.9297E-6	-0.045848	0.0	0.0	
5.00000	11.33333	23.00000	-0.079471	22.933	-8.1272E-6	-0.074574	1.0724E-6	0.0	
6.00000	11.33333	23.00000	-0.11914	22.933	-19.131E-6	-0.11510	1.7595E-6	0.0	
7.00000	11.33333	23.00000	-0.18251	22.933	-54.770E-6	-0.20886	3.1918E-6	0.0	
8.00000	11.33333	23.00000	-0.29283	22.933	-221.67E-6	-0.44661	6.8204E-6	0.0	
9.00000	11.33333	23.00000	-0.51841	22.933	-0.0020730	-1.3605	20.712E-6	0.0	
10.00000	11.33333	23.00000	-1.2833	22.933	-10.881	-45.272	269.61E-6	0.0	
11.00000	11.33333	23.00000	-2.3103	22.933	-59.721	-161.03	277.25E-6	0.0	
12.00000	11.33333	23.00000	-2.5760	22.933	-59.972	-169.61	157.62E-6	0.0	
13.00000	11.33333	23.00000	-1.6721	22.933	-29.998	-86.819	48.565E-6	0.0	
14.00000	11.33333	23.00000	-0.58136	22.933	-0.0033494	-1.8232	27.730E-6	0.0	
15.00000	11.33333	23.00000	-0.30769	22.933	-301.38E-6	-0.51448	7.8536E-6	0.0	
16.00000	11.33333	23.00000	-0.18446	22.933	-64.790E-6	-0.22108	3.3783E-6	0.0	
17.00000	11.33333	23.00000	-0.11775	22.933	-20.706E-6	-0.11648	1.7806E-6	0.0	
18.00000	11.33333	23.00000	-0.077633	22.933	-8.3355E-6	-0.069311	1.0597E-6	0.0	
19.00000	11.33333	23.00000	-0.051833	22.933	-3.9026E-6	-0.044731	0.0	0.0	
20.00000	11.33333	23.00000	-0.034482	22.933	-2.0327E-6	-0.030602	0.0	0.0	
21.00000	11.33333	23.00000	-0.022449	22.933	-1.1462E-6	-0.021881	0.0	0.0	
22.00000	11.33333	23.00000	-0.013927	22.933	0.0	-0.016197	0.0	0.0	
23.00000	11.33333	23.00000	-0.0078110	22.933	0.0	-0.012329	0.0	0.0	
24.00000	11.33333	23.00000	-0.0033882	22.933	0.0	-0.0096050	0.0	0.0	
25.00000	11.33333	23.00000	-184.06E-6	22.933	0.0	-0.0076195	0.0	0.0	
26.00000	11.33333	23.00000	0.0021294	22.933	0.0	-0.0061617	0.0	0.0	
27.00000	11.33333	23.00000	0.0037838	22.933	0.0	-0.0050481	0.0	0.0	
28.00000	11.33333	23.00000	0.0049464	22.933	0.0	-0.0041878	0.0	0.0	
29.00000	11.33333	23.00000	0.0057401	22.933	0.0	-0.0035126	0.0	0.0	
30.00000	11.33333	23.00000	0.0062563	22.933	0.0	-0.0029752	0.0	0.0	
0.00000	12.00000	23.00000	-0.0088863	22.933	0.0	-0.012983	0.0	0.0	
1.00000	12.00000	23.00000	-0.015400	22.933	-1.2397E-6	-0.017107	0.0	0.0	
2.00000	12.00000	23.00000	-0.024469	22.933	-2.1957E-6	-0.023180	0.0	0.0	
3.00000	12.00000	23.00000	-0.037267	22.933	-2.1957E-6	-0.032503	0.0	0.0	
4.00000	12.00000	23.00000	-0.056594	22.933	-4.1927E-6	-0.047577	0.0	0.0	
5.00000	12.00000	23.00000	-0.083007	22.933	-8.8390E-6	-0.073630	1.1257E-6	0.0	
6.00000	12.00000	23.00000	-0.12519	22.933	-21.384E-6	-0.12289	1.8785E-6	0.0	
7.00000	12.00000	23.00000	-0.19432	22.933	-63.741E-6	-0.22891	3.4982E-6	0.0	
8.00000	12.00000	23.00000	-0.31860	22.933	-274.34E-6	-0.51108	7.8040E-6	0.0	
9.00000	12.00000	23.00000	-0.53929	22.933	-0.0027868	-1.6825	25.604E-6	0.0	
10.00000	12.00000	23.00000	-1.5275	22.933	-10.991	-55.152	339.35E-6	0.0	
11.00000	12.00000	23.00000	-2.6817	22.933	-59.990	-171.02	136.92E-6	0.0	
12.00000	12.00000	23.00000	-2.6992	22.933	-59.991	-171.28	132.99E-6	0.0	
13.00000	12.00000	23.00000	-1.6864	22.933	-29.998	-86.736	49.811E-6	0.0	
14.00000	12.00000	23.00000	-0.58732	22.933	-0.0032652	-1.8039	27.439E-6	0.0	
15.00000	12.00000	23.00000	-0.31234	22.933	-295.39E-6	-0.51562	7.8725E-6	0.0	
16.00000	12.00000	23.00000	-0.18745	22.933	-64.469E-6	-0.22327	3.4118E-6	0.0	
17.00000	12.00000	23.00000	-0.11962	22.933	-20.794E-6	-0.11791	1.8025E-6	0.0	
18.00000	12.00000	23.00000	-0.078811	22.933	-8.4081E-6	-0.070165	1.0727E-6	0.0	
19.00000	12.00000	23.00000	-0.052592	22.933	-3.9436E-6	-0.045245	8.2294E-6	0.0	
20.00000	12.00000	23.00000	-0.034980	22.933	-2.0549E-6	-0.030920	0.0	0.0	
21.00000	12.00000	23.00000	-0.022780	22.933	-1.1584E-6	-0.022084	0.0	0.0	
22.00000	12.00000	23.00000	-0.014150	22.933	0.0	-0.016331	0.0	0.0	
23.00000	12.00000	23.00000	-0.0079617	22.933	0.0	-0.012420	0.0	0.0	
24.00000	12.00000	23.00000	-0.004905	22.933	0.0	-0.0096483	0.0	0.0	
25.00000	12.00000	23.00000	-253.03E-6	22.933	0.0	-0.0076746	0.0	0.0	
26.00000	12.00000	23.00000	0.0020834	22.933	0.0	-0.0061944	0.0	0.0	
27.00000	12.00000	23.00000	0.0037537	22.933	0.0	-0.0050723	0.0	0.0	
28.00000	12.00000	23.00000	0.0049275	22.933	0.0	-0.0042060	0.0	0.0	
29.00000	12.00000	23.00000	0.0057200	22.933	0.0	-0.0035280	0.0	0.0	
30.00000	12.00000	23.00000	0.0062506	22.933	0.0	-0.0029860	0.0	0.0	
0.00000	12.66667	23.00000	-0.0090104	22.933					

3A Mornington Crescent
BIA

Dr. Ref.

Undrained short term movement from excavation

Made by
JGM

Date

Checked

Name	X [m]	Location Y [m]	Z[Level] [mOD]	Displacement Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
4.00000	13.33333	23.00000	-0.056074	22.933	-4.3070E-6	-0.048078	0.0	
5.00000	13.33333	23.00000	-0.083745	22.933	-9.1722E-6	-0.074781	1.1433E-6	
6.00000	13.33333	23.00000	-0.12669	22.933	-22.472E-6	-0.12574	1.9220E-6	
7.00000	13.33333	23.00000	-0.19748	22.933	-67.680E-6	-0.23646	3.6134E-6	
8.00000	13.33333	23.00000	-0.32500	22.933	-286.47E-6	-0.53066	8.1030E-6	
9.00000	13.33333	23.00000	-0.58999	22.933	-0.0025007	-1.6733	25.477E-6	
10.00000	13.33333	23.00000	-1.3731	22.933	-1.0926	-23.331	306.71E-6	
11.00000	13.33333	23.00000	-2.3285	22.933	-59.587	-159.7	-291.28E-6	
12.00000	13.33333	23.00000	-1.2961	22.933	-0.10378	-10.147	150.43E-6	
13.00000	13.33333	23.00000	-0.85333	22.933	-0.050339	-5.1422	76.337E-6	
14.00000	13.33333	23.00000	-0.45978	22.933	-0.0012378	-0.0444	15.917E-6	
15.00000	13.33333	23.00000	-0.27236	22.933	-176.14E-6	-0.39357	6.0113E-6	
16.00000	13.33333	23.00000	-0.17183	22.933	-47.415E-6	-0.19161	2.9283E-6	
17.00000	13.33333	23.00000	-0.11256	22.933	-17.121E-6	-0.0730	1.6404E-6	
18.00000	13.33333	23.00000	-0.075263	22.933	-7.3863E-6	-0.065943	1.0082E-6	
19.00000	13.33333	23.00000	-0.050661	22.933	-3.6029E-6	-0.043339	0.0	
20.00000	13.33333	23.00000	-0.03863	22.933	-1.9246E-6	-0.029972	0.0	
21.00000	13.33333	23.00000	-0.022103	22.933	-1.1030E-6	-0.021575	0.0	
22.00000	13.33333	23.00000	-0.013725	22.933	0.0	-0.016040	0.0	
23.00000	13.33333	23.00000	-0.0076869	22.933	0.0	-0.012245	0.0	
24.00000	13.33333	23.00000	-0.0033093	22.933	0.0	-0.0095585	0.0	
25.00000	13.33333	23.00000	-131.81E-6	22.933	0.0	-0.0076030	0.0	
26.00000	13.33333	23.00000	0.0021652	22.933	0.0	-0.0061463	0.0	
27.00000	13.33333	23.00000	0.0038092	22.933	0.0	-0.0050391	0.0	
28.00000	13.33333	23.00000	0.0049333	22.933	0.0	-0.0041255	0.0	
29.00000	13.33333	23.00000	0.0057542	22.933	0.0	-0.0035095	0.0	
30.00000	13.33333	23.00000	0.0062672	22.933	0.0	-0.0029735	0.0	
0.00000	14.00000	23.00000	-0.0086447	22.933	0.0	-0.012838	0.0	
1.00000	14.00000	23.00000	-0.015042	22.933	0.0	-0.016897	0.0	
2.00000	14.00000	23.00000	-0.025263	22.933	-1.2239E-6	-0.025456	0.0	
3.00000	14.00000	23.00000	-0.036464	22.933	-2.1684E-6	-0.032016	0.0	
4.00000	14.00000	23.00000	-0.054463	22.933	-4.1451E-6	-0.046795	0.0	
5.00000	14.00000	23.00000	-0.081065	22.933	-8.7559E-6	-0.072316	1.1056E-6	
6.00000	14.00000	23.00000	-0.121399	22.933	-21.226E-6	-0.12052	1.8423E-6	
7.00000	14.00000	23.00000	-0.18466	22.933	-63.075E-6	-0.22389	3.4214E-6	
8.00000	14.00000	23.00000	-0.30686	22.933	-262.89E-6	-0.49440	7.5494E-6	
9.00000	14.00000	23.00000	-0.54815	22.933	-0.0022556	-1.5320	23.328E-6	
10.00000	14.00000	23.00000	-1.2668	22.933	-1.0776	-22.322	291.95E-6	
11.00000	14.00000	23.00000	-2.1036	22.933	-59.567	-157.35	-326.56E-6	
12.00000	14.00000	23.00000	-0.91523	22.933	-0.0096006	-3.7481	56.885E-6	
13.00000	14.00000	23.00000	-0.59488	22.933	-0.0022071	-1.5730	23.956E-6	
14.00000	14.00000	23.00000	-0.37579	22.933	-465.72E-6	-0.67164	10.251E-6	
15.00000	14.00000	23.00000	-0.23926	22.933	-112.07E-6	-0.31302	4.7823E-6	
16.00000	14.00000	23.00000	-0.15663	22.933	-36.198E-6	-0.16621	2.5404E-6	
17.00000	14.00000	23.00000	-0.10482	22.933	-14.301E-6	-0.097452	1.4898E-6	
18.00000	14.00000	23.00000	-0.071002	22.933	-6.5002E-6	-0.061547	0.0	
19.00000	14.00000	23.00000	-0.048174	22.933	-3.2770E-6	-0.041162	0.0	
20.00000	14.00000	23.00000	-0.032344	22.933	-1.7896E-6	-0.028804	0.0	
21.00000	14.00000	23.00000	-0.021143	22.933	-1.0415E-6	-0.020906	0.0	
22.00000	14.00000	23.00000	-0.013102	22.933	-0.6203E-6	-0.016235	0.0	
23.00000	14.00000	23.00000	-0.0072758	22.933	0.0	-0.011990	0.0	
24.00000	14.00000	23.00000	-0.0030344	22.933	0.0	-0.0093908	0.0	
25.00000	14.00000	23.00000	53.255E-6	22.933	0.0	-0.0074895	0.0	
26.00000	14.00000	23.00000	0.0022899	22.933	0.0	-0.0060673	0.0	
27.00000	14.00000	23.00000	0.0039527	22.933	0.0	-0.0054827	0.0	
28.00000	14.00000	23.00000	0.0050202	22.933	0.0	-0.0041415	0.0	
29.00000	14.00000	23.00000	0.0057897	22.933	0.0	-0.0034791	0.0	
30.00000	14.00000	23.00000	0.0062890	22.933	0.0	-0.0029505	0.0	
0.00000	14.66667	23.00000	-0.0081700	22.933	0.0	-0.012546	0.0	
1.00000	14.66667	23.00000	-0.014330	22.933	0.0	-0.016448	0.0	
2.00000	14.66667	23.00000	-0.022853	22.933	-1.1646E-6	-0.022140	0.0	
3.00000	14.66667	23.00000	-0.034782	22.933	-2.0435E-6	-0.030794	0.0	
4.00000	14.66667	23.00000	-0.051775	22.933	-3.8573E-6	-0.044609	0.0	
5.00000	14.66667	23.00000	-0.076602	22.933	-8.0151E-6	-0.068109	1.0413E-6	
6.00000	14.66667	23.00000	-0.11421	22.933	-19.029E-6	-0.11163	1.7065E-6	
7.00000	14.66667	23.00000	-0.17420	22.933	-55.221E-6	-0.20280	3.0991E-6	
8.00000	14.66667	23.00000	-0.27792	22.933	-226.99E-6	-0.43631	6.6626E-6	
9.00000	14.66667	23.00000	-0.48624	22.933	-0.0020348	-1.3444	20.468E-6	
10.00000	14.66667	23.00000	-1.1403	22.933	-1.0763	-21.737	283.08E-6	
11.00000	14.66667	23.00000	-1.9368	22.933	-59.564	-156.353	-341.66E-6	
12.00000	14.66667	23.00000	-0.72247	22.933	-0.0069343	-2.7089	41.112E-6	
13.00000	14.66667	23.00000	-0.45742	22.933	-719.84E-6	-0.92549	14.122E-6	
14.00000	14.66667	23.00000	-0.30584	22.933	-209.48E-6	-0.45767	6.9902E-6	
15.00000	14.66667	23.00000	-0.20547	22.933	-69.642E-6	-0.24446	3.7357E-6	
16.00000	14.66667	23.00000	-0.13937	22.933	-26.542E-6	-0.14859	2.1477E-6	
17.00000	14.66667	23.00000	-0.095414	22.933	-11.504E-6	-0.086421	1.3212E-6	
18.00000	14.66667	23.00000	-0.065591	22.933	-5.5378E-6	-0.056286	0.0	
19.00000	14.66667	23.00000	-0.044915	22.933	-2.9000E-6	-0.038433	0.0	
20.00000	14.66667	23.00000	-0.030310	22.933	-1.6260E-6	-0.027287	0.0	
21.00000	14.66667	23.00000	-0.019807	22.933	-0.9203E-6	-0.020214	0.0	
22.00000	14.66667	23.00000	-0.012245	22.933	0.0	-0.015085	0.0	
23.00000	14.66667	23.00000	-0.0067046	22.933	0.0	-0.011637	0.0	
24.00000	14.66667	23.00000	-0.0026500	22.933	0.0	-0.0091562	0.0	
25.00000	14.66667	23.00000	312.96E-6	22.933	0.0	-0.0073289	0.0	
26.00000	14.66667	23.00000	0.0046517	22.933	0.0	-0.0054551	0.0	
27.00000	14.66667	23.00000	0.0040100	22.933	0.0	-0.0049018	0.0	
28.00000	14.66667	23.00000	0.0050974	22.933	0.0	-0.0040821	0.0	
29.00000	14.66667	23.00000	0.0058390	22.933	0.0	-0.0034348	0.0	
30.00000	14.66667	23.00000	0.0063188	22.933	0.0	-0.0029170	0.0	
0.00000	15.33333	23.00000	-0.0075323	22.933	0.0	-0.012348	0.0	
1.00000	15.33333	23.00000	-0.013365	22.933	0.0	-0.015834	0.0	
2.00000	15.33333	23.00000	-0.021392	22.933	-1.0847E-6	-0.021162	0.0	
3.00000	15.33333	23.00000	-0.032526	22.933	-1.8761E-6	-0.029155	0.0	
4.00000	15.33333	23.00000	-0.048196	22.933	-3.4757E-6	-0.041703	0.0	
5.00000	15.33333	23.00000	-0.070722	22.933	-7.0458E-6	-0.062322	0.0	
6.00000	15.33333	23.00000	-0.10409	22.933	-16.190E-6	-0.10014	1.5308E-6	
7.00000	15.33333	23.00000	-0.15571	22.933	-45.064E-6	-0.17585	2.6874E-6	
8.00000	15.33333	23.00000	-0.24134	22.933	-176.81E-6	-0.36100	5.5132E-6	
9.00000	15.33333	23.00000	-0.40501	22.933	-0.0015568	-1.0544	16.056E-6	
10.00000	15.33333	23.00000	-0.62807	22.933	-1.0552	-19.504	249.88E-6	
11.00000	15.33333	23.00000	-1.6244	22.933	-59.509	-152.30	-401.09E-6	
12.00000	15.33333	23.00000	-0.56240	22.933	-0.0052693	-1.9843	30.107E-6	
13.00000	15.33333	23.00000	-0.35925	22.933	-406.47E-6	-0.63385	9.6756E-6	
14.00000	15.33333	23.00000	-0.24873	22.933	-115.91E-6	-0.32903	5.0269E-6	
15.00000	15.33333	23.00000	-0.17383	22.933	-44.488E-6	-0.19073	2.9151E-6	
16.00000	15.33333	23.00000	-0.12167	22.933	-19.154E-6	-0.11698	1.7882E-6	
17.00000	15.33333	23.00000	-0.085175	22.933	-9.0270E-6	-0.075309	1.1514E-6	
18.00000	15.33333	23.00000	-0.059447	22.933	-4.6014E-6	-0.050635	0.0	
19.00000	15.33333	23.00000	-0.041105	22.933	-2.5084E-6	-0.035365	0.0	
20.00000	15.33333	23.00000	-0.027879	22.933	-1.4478E-6	-0.02525	0.0	
21.00000	15.33333	23.00000	-0.018250	22.933	0.0	-0.018952	0.0	
22.00000	15.33333	23.00000	-0.011192	22.933	0.0	-0.014418	0.0	
23.00000	15.33333	23.00000	-0.0059970	22.933	0.0	-0.011202	0.0	
24.00000	15.33333	23.00000	-0.0021710	22.933	0.0	-0.0088636	0.0	
25.00								

MGC-17-27
3A Mornington Crescent
BIA
Undrained short term movement from excavation
Dr. Ref.
**Made by
JGM**
Date
Checked

Name	X [m]	Location Y [m]	Z[Level] [MOD]	Displacement Z [mm]	Calc Level [MOD]	Vert Stress [kN/m ²]	Stresses Sum Princ [kN/m ²]	Vert Strain [-]
21.00000	16.00000	23.00000	-0.016458	22.933	0.0	-0.017772	0.0	
22.00000	16.00000	23.00000	-0.0099876	22.933	0.0	-0.013662	0.0	
23.00000	16.00000	23.00000	-0.0051803	22.933	0.0	-0.010701	0.0	
24.00000	16.00000	23.00000	-0.0016144	22.933	0.0	-0.0085231	0.0	
25.00000	16.00000	23.00000	0.0010174	22.933	0.0	-0.006890	0.0	
26.00000	16.00000	23.00000	0.0029423	22.933	0.0	-0.0056417	0.0	
27.00000	16.00000	23.00000	0.0043297	22.933	0.0	-0.0046746	0.0	
28.00000	16.00000	23.00000	0.0053072	22.933	0.0	-0.0039142	0.0	
29.00000	16.00000	23.00000	0.0059719	22.933	0.0	-0.0033086	0.0	
30.00000	16.00000	23.00000	0.0061978	22.933	0.0	-0.0028207	0.0	
0.00000	16.66667	23.00000	-0.0058276	22.933	0.0	-0.011102	0.0	
1.00000	16.66667	23.00000	-0.010853	22.933	0.0	-0.014247	0.0	
2.00000	16.66667	23.00000	-0.017633	22.933	0.0	-0.018666	0.0	
3.00000	16.66667	23.00000	-0.026810	22.933	-1.4726E-6	-0.025061	0.0	
4.00000	16.66667	23.00000	-0.039309	22.933	-2.5853E-6	-0.034639	0.0	
5.00000	16.66667	23.00000	-0.056496	22.933	-4.8737E-6	-0.049599	0.0	
6.00000	16.66667	23.00000	-0.080427	22.933	-10.100E-6	-0.074253	1.1352E-6	
7.00000	16.66667	23.00000	-0.11426	22.933	-23.984E-6	-0.11792	1.8024E-6	
8.00000	16.66667	23.00000	-0.16289	22.933	-70.403E-6	-0.20377	3.1133E-6	
9.00000	16.66667	23.00000	-0.23298	22.933	-288.79E-6	-0.39916	6.0916E-6	
10.00000	16.66667	23.00000	-0.32066	22.933	-0.0014568	-0.84355	12.835E-6	
11.00000	16.66667	23.00000	-0.34931	22.933	-0.0020564	-1.0088	15.334E-6	
12.00000	16.66667	23.00000	-0.28394	22.933	-519.44E-6	-0.54791	8.3560E-6	
13.00000	16.66667	23.00000	-0.21459	22.933	-120.63E-6	-0.29122	4.4485E-6	
14.00000	16.66667	23.00000	-0.14527	22.933	-43.048E-6	-0.17789	2.7187E-6	
15.00000	16.66667	23.00000	-0.12027	22.933	-19.539E-6	-0.11659	1.7823E-6	
16.00000	16.66667	23.00000	-0.088708	22.933	-9.8952E-6	-0.079234	1.2114E-6	
17.00000	16.66667	23.00000	-0.064628	22.933	-5.3352E-6	-0.055298	0.0	
18.00000	16.66667	23.00000	-0.046401	22.933	-3.0189E-6	-0.039546	0.0	
19.00000	16.66667	23.00000	-0.034667	22.933	-1.7824E-6	-0.028344	0.0	
20.00000	16.66667	23.00000	-0.022316	22.933	-1.0935E-6	-0.021652	0.0	
21.00000	16.66667	23.00000	-0.014531	22.933	0.0	-0.016526	0.0	
22.00000	16.66667	23.00000	-0.0086771	22.933	0.0	-0.012847	0.0	
23.00000	16.66667	23.00000	-0.0042832	22.933	0.0	-0.010154	0.0	
24.00000	16.66667	23.00000	-998.85E-6	22.933	0.0	-0.0081453	0.0	
25.00000	16.66667	23.00000	0.0014391	22.933	0.0	-0.0066225	0.0	
26.00000	16.66667	23.00000	0.0032292	22.933	0.0	-0.0054498	0.0	
27.00000	16.66667	23.00000	0.0045222	22.933	0.0	-0.0045338	0.0	
28.00000	16.66667	23.00000	0.0054333	22.933	0.0	-0.0038092	0.0	
29.00000	16.66667	23.00000	0.006167	22.933	0.0	-0.0032091	0.0	
30.00000	16.66667	23.00000	0.0064441	22.933	0.0	-0.0027596	0.0	
0.00000	17.33333	23.00000	-0.0048386	22.933	0.0	-0.010493	0.0	
1.00000	17.33333	23.00000	-0.0094054	22.933	0.0	-0.013338	0.0	
2.00000	17.33333	23.00000	-0.015498	22.933	0.0	-0.017268	0.0	
3.00000	17.33333	23.00000	-0.023428	22.933	-1.2652E-6	-0.023824	0.0	
4.00000	17.33333	23.00000	-0.034482	22.933	-2.1493E-6	-0.030926	0.0	
5.00000	17.33333	23.00000	-0.049023	22.933	-3.8713E-6	-0.043089	0.0	
6.00000	17.33333	23.00000	-0.068545	22.933	-7.5105E-6	-0.062070	0.0	
7.00000	17.33333	23.00000	-0.094709	22.933	-16.055E-6	-0.093010	1.4218E-6	
8.00000	17.33333	23.00000	-0.12923	22.933	-38.845E-6	-0.147217	2.2277E-6	
9.00000	17.33333	23.00000	-0.17208	22.933	-105.35E-6	-0.23626	3.6086E-6	
10.00000	17.33333	23.00000	-0.21356	22.933	-252.80E-6	-0.35792	5.4626E-6	
11.00000	17.33333	23.00000	-0.22641	22.933	-298.88E-6	-0.39240	5.9878E-6	
12.00000	17.33333	23.00000	-0.20142	22.933	-151.80E-6	-0.29351	4.4821E-6	
13.00000	17.33333	23.00000	-0.13362	22.933	-59.333E-6	-0.19419	2.9673E-6	
14.00000	17.33333	23.00000	-0.12831	22.933	-26.054E-6	-0.13107	2.0035E-6	
15.00000	17.33333	23.00000	-0.098545	22.933	-13.067E-6	-0.091201	1.3943E-6	
16.00000	17.33333	23.00000	-0.074341	22.933	-7.1003E-6	-0.064831	0.0	
17.00000	17.33333	23.00000	-0.055097	22.933	-4.0545E-6	-0.046905	0.0	
18.00000	17.33333	23.00000	-0.040337	22.933	-2.4046E-6	-0.034265	0.0	
19.00000	17.33333	23.00000	-0.028375	22.933	-1.4746E-6	-0.025857	0.0	
20.00000	17.33333	23.00000	-0.019405	22.933	0.0	-0.019700	0.0	
21.00000	17.33333	23.00000	-0.012538	22.933	0.0	-0.015257	0.0	
22.00000	17.33333	23.00000	-0.0073041	22.933	0.0	-0.012000	0.0	
23.00000	17.33333	23.00000	-0.003343	22.933	0.0	-0.0091447	0.0	
24.00000	17.33333	23.00000	342.98E-6	22.933	0.0	-0.0077408	0.0	
25.00000	17.33333	23.00000	0.0018907	22.933	0.0	-0.0063339	0.0	
26.00000	17.33333	23.00000	0.0035373	22.933	0.0	-0.0052401	0.0	
27.00000	17.33333	23.00000	0.0047291	22.933	0.0	-0.0043788	0.0	
28.00000	17.33333	23.00000	0.0056585	22.933	0.0	-0.0036935	0.0	
29.00000	17.33333	23.00000	0.0061355	22.933	0.0	-0.0031404	0.0	
30.00000	17.33333	23.00000	0.0064926	22.933	0.0	-0.0026913	0.0	
0.00000	18.00000	23.00000	-0.0037982	22.933	0.0	-0.0098516	0.0	
1.00000	18.00000	23.00000	-0.0078962	22.933	0.0	-0.012396	0.0	
2.00000	18.00000	23.00000	-0.013299	22.933	0.0	-0.016844	0.0	
3.00000	18.00000	23.00000	-0.020393	22.933	-1.0690E-6	-0.020609	0.0	
4.00000	18.00000	23.00000	-0.029679	22.933	-1.7527E-6	-0.027333	0.0	
5.00000	18.00000	23.00000	-0.041780	22.933	-3.0080E-6	-0.037028	0.0	
6.00000	18.00000	23.00000	-0.057428	22.933	-5.4460E-6	-0.051314	0.0	
7.00000	18.00000	23.00000	-0.077218	22.933	-10.473E-6	-0.072117	1.1117E-6	
8.00000	18.00000	23.00000	-0.10159	22.933	-21.293E-6	-0.10466	1.5998E-6	
9.00000	18.00000	23.00000	-0.12836	22.933	-43.369E-6	-0.14883	2.2743E-6	
10.00000	18.00000	23.00000	-0.15082	22.933	-74.194E-6	-0.19361	2.9578E-6	
11.00000	18.00000	23.00000	-0.15796	22.933	-81.993E-6	-0.20571	3.1424E-6	
12.00000	18.00000	23.00000	-0.14848	22.933	-55.743E-6	-0.17495	2.6731E-6	
13.00000	18.00000	23.00000	-0.12484	22.933	-29.831E-6	-0.13227	2.0216E-6	
14.00000	18.00000	23.00000	-0.10149	22.933	-15.733E-6	-0.097174	1.4855E-6	
15.00000	18.00000	23.00000	-0.080033	22.933	-8.7401E-6	-0.071492	1.0930E-6	
16.00000	18.00000	23.00000	-0.061603	22.933	-5.0894E-6	-0.052991	0.0	
17.00000	18.00000	23.00000	-0.046347	22.933	-3.0677E-6	-0.038446	0.0	
18.00000	18.00000	23.00000	-0.034021	22.933	-1.9017E-6	-0.029989	0.0	
19.00000	18.00000	23.00000	-0.024224	22.933	-1.2093E-6	-0.022964	0.0	
20.00000	18.00000	23.00000	-0.016529	22.933	0.0	-0.017814	0.0	
21.00000	18.00000	23.00000	-0.010537	22.933	0.0	-0.014001	0.0	
22.00000	18.00000	23.00000	-0.006086	22.933	0.0	-0.011245	0.0	
23.00000	18.00000	23.00000	-0.0023605	22.933	0.0	-0.0089803	0.0	
24.00000	18.00000	23.00000	335.04E-6	22.933	0.0	-0.0073195	0.0	
25.00000	18.00000	23.00000	0.0023599	22.933	0.0	-0.0060300	0.0	
26.00000	18.00000	23.00000	0.0038584	22.933	0.0	-0.0050170	0.0	
27.00000	18.00000	23.00000	0.004447	22.933	0.0	-0.04426	0.0	
28.00000	18.00000	23.00000	0.0057090	22.933	0.0	-0.0035671	0.0	
29.00000	18.00000	23.00000	0.0062225	22.933	0.0	-0.0030442	0.0	
30.00000	18.00000	23.00000	0.0065416	22.933	0.0	-0.0026166	0.0	
0.00000	18.66667	23.00000	-0.0027365	22.933	0.0	-0.0091962	0.0	
1.00000	18.66667	23.00000	-0.0063708	22.933	0.0	-0.013447	0.0	
2.00000	18.66667	23.00000	-0.011103	22.933	0.0	-0.014438	0.0	
3.00000	18.66667	23.00000	-0.017219	22.933	0.0	-0.018470	0.0	
4.00000	18.66667	23.00000	-0.025058	22.933	-1.4087E-6	-0.023979	0.0	
5.00000	18.66667	23.00000	-0.034998	22.933	-2.3024E-6	-0.031598	0.0	
6.00000	18.66667	23.00000	-0.047927	22.933	-3.8964E-6	-0.04206	0.0	
7.00000	18.66667	23.00000	-0.062387	22.933	-6.8004E-6	-0.056889	0.0	
8.00000	18.66667	23.00000	-0.079504	22.933	-12.003E-6	-0.076457	1.1688E-6	
9.00000	18.66667	23.00000	-0.096819	22.933	-20.228E-6	-0.099644	1.5230E-6	
10.00000	18.66667	23.00000	-0.11019	22.933	-28.997E-6	-0.11966	1.8288E-6	
11.00000	18.66667	23.00000	-0.124661	22.933	-31.073E-6	-0.12524	1.9140E-6	
12.00000</								

MGC-17-27

Drg. Ref.

**Made by
JGM**
Date
Checked
**3A Mornington Crescent
BIA**
Undrained short term movement from excavation

Name	X [m]	Location Y [m]	Z[Level] [mOD]	Displacement Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
7.00000	19.33333	23.00000	-0.049845	22.933	-4.4569E-6	-0.044804	0.0	
8.00000	19.33333	23.00000	-0.062038	22.933	-7.0492E-6	-0.057087	0.0	
9.00000	19.33333	23.00000	-0.073629	22.933	-10.470E-6	-0.070138	1.0722E-6	
10.00000	19.33333	23.00000	-0.082137	22.933	-13.560E-6	-0.080379	1.2287E-6	
11.00000	19.33333	23.00000	-0.085052	22.933	-14.296E-6	-0.083395	1.2747E-6	
12.00000	19.33333	23.00000	-0.081624	22.933	-12.166E-6	-0.077968	1.1919E-6	
13.00000	19.33333	23.00000	-0.073383	22.933	-8.8798E-6	-0.067352	1.0297E-6	
14.00000	19.33333	23.00000	-0.062713	22.933	-6.0123E-6	-0.055515	0.0	
15.00000	19.33333	23.00000	-0.051516	22.933	-3.9760E-6	-0.044684	0.0	
16.00000	19.33333	23.00000	-0.040922	22.933	-2.6270E-6	-0.035584	0.0	
17.00000	19.33333	23.00000	-0.031482	22.933	-1.7480E-6	-0.028242	0.0	
18.00000	19.33333	23.00000	-0.023392	22.933	-1.1751E-6	-0.022442	0.0	
19.00000	19.33333	23.00000	-0.016645	22.933	0.0	-0.017907	0.0	
20.00000	19.33333	23.00000	-0.011132	22.933	0.0	-0.014377	0.0	
21.00000	19.33333	23.00000	-0.0066983	22.933	0.0	-0.011266	0.0	
22.00000	19.33333	23.00000	-0.0031826	22.933	0.0	-0.0094815	0.0	
23.00000	19.33333	23.00000	-431.21E-6	22.933	0.0	-0.0077951	0.0	
24.00000	19.33333	23.00000	0.0016925	22.933	0.0	-0.0064618	0.0	
25.00000	19.33333	23.00000	0.0033061	22.933	0.0	-0.0053999	0.0	
26.00000	19.33333	23.00000	0.0045082	22.933	0.0	-0.0045476	0.0	
27.00000	19.33333	23.00000	0.0053809	22.933	0.0	-0.0038582	0.0	
28.00000	19.33333	23.00000	0.0059913	22.933	0.0	-0.0032962	0.0	
29.00000	19.33333	23.00000	0.0063943	22.933	0.0	-0.0028346	0.0	
30.00000	19.33333	23.00000	0.0066344	22.933	0.0	-0.0024527	0.0	
1.00000	20.00000	23.00000	-652.21E-6	22.933	0.0	-0.0079010	0.0	
1.00000	20.00000	23.00000	-0.0034210	22.933	0.0	-0.0096196	0.0	
2.00000	20.00000	23.00000	-0.0069380	22.933	0.0	-0.011811	0.0	
3.00000	20.00000	23.00000	-0.011341	22.933	0.0	-0.014620	0.0	
4.00000	20.00000	23.00000	-0.016762	22.933	0.0	-0.018223	0.0	
5.00000	20.00000	23.00000	-0.023924	22.933	-1.3222E-6	-0.022825	0.0	
6.00000	20.00000	23.00000	-0.030925	22.933	-1.9868E-6	-0.028611	0.0	
7.00000	20.00000	23.00000	-0.039436	22.933	-2.9713E-6	-0.035635	0.0	
8.00000	20.00000	23.00000	-0.048235	22.933	-4.3216E-6	-0.043574	0.0	
9.00000	20.00000	23.00000	-0.056230	22.933	-5.8876E-6	-0.051378	0.0	
10.00000	20.00000	23.00000	-0.061911	22.933	-7.1160E-6	-0.057152	0.0	
11.00000	20.00000	23.00000	-0.063918	22.933	-7.4761E-6	-0.058938	0.0	
12.00000	20.00000	23.00000	-0.061831	22.933	-6.6729E-6	-0.056205	0.0	
13.00000	20.00000	23.00000	-0.056403	22.933	-5.2678E-6	-0.050247	0.0	
14.00000	20.00000	23.00000	-0.048974	22.933	-3.8601E-6	-0.042971	0.0	
15.00000	20.00000	23.00000	-0.040800	22.933	-2.7283E-6	-0.035772	0.0	
16.00000	20.00000	23.00000	-0.032758	22.933	-1.9017E-6	-0.029334	0.0	
17.00000	20.00000	23.00000	-0.025362	22.933	-1.3220E-6	-0.023877	0.0	
18.00000	20.00000	23.00000	-0.018855	22.933	0.0	-0.019391	0.0	
19.00000	20.00000	23.00000	-0.013309	22.933	0.0	-0.015765	0.0	
20.00000	20.00000	23.00000	-0.008945	22.933	0.0	-0.012861	0.0	
21.00000	20.00000	23.00000	-0.0049274	22.933	0.0	-0.010546	0.0	
22.00000	20.00000	23.00000	-0.0019034	22.933	0.0	-0.0086996	0.0	
23.00000	20.00000	23.00000	486.38E-6	22.933	0.0	-0.0072239	0.0	
24.00000	20.00000	23.00000	0.0023446	22.933	0.0	-0.0060396	0.0	
25.00000	20.00000	23.00000	0.0037634	22.933	0.0	-0.0050841	0.0	
26.00000	20.00000	23.00000	0.0048230	22.933	0.0	-0.0043087	0.0	
27.00000	20.00000	23.00000	0.0055915	22.933	0.0	-0.0036754	0.0	
28.00000	20.00000	23.00000	0.0061261	22.933	0.0	-0.0031548	0.0	
29.00000	20.00000	23.00000	0.0064742	22.933	0.0	-0.0027241	0.0	
30.00000	20.00000	23.00000	0.0067449	22.933	0.0	-0.0023656	0.0	
NW-SE	13.00000	0.00000	-0.0044886	22.933	0.0	-0.010271	0.0	
12.85000	1.00000	23.00000	-0.0094261	22.933	0.0	-0.013367	0.0	
12.70000	2.00000	23.00000	-0.016329	22.933	0.0	-0.017864	0.0	
12.55000	3.00000	23.00000	-0.026084	22.933	-1.4677E-6	-0.024671	0.0	
12.40000	4.00000	23.00000	-0.040123	22.933	-2.7599E-6	-0.035520	0.0	
12.25000	5.00000	23.00000	-0.060887	22.933	-5.7440E-6	-0.054013	0.0	
12.10000	6.00000	23.00000	-0.092863	22.933	-13.796E-6	-0.088564	1.3539E-6	
11.95000	7.00000	23.00000	-0.14513	22.933	-41.213E-6	-0.16228	2.4800E-6	
11.80000	8.00000	23.00000	-0.23868	22.933	-178.57E-6	-0.35641	5.4428E-6	
11.65000	9.00000	23.00000	-0.43214	22.933	-0.0016874	-1.1107	16.909E-6	
11.50000	10.00000	23.00000	-0.91529	22.933	-0.21513	-8.8344	125.24E-6	
11.35000	11.00000	23.00000	-1.6935	22.933	-2.5305	-35.228	422.68E-6	
11.20000	12.00000	23.00000	-2.7272	22.933	-59.991	-171.41	-130.92E-6	
11.05000	13.00000	23.00000	-2.4717	22.933	-59.532	-162.20	-250.84E-6	
10.90000	14.00000	23.00000	-2.1770	22.933	-59.856	-162.66	-258.63E-6	
10.75000	15.00000	23.00000	-1.9298	22.933	-59.934	-163.53	-248.93E-6	
10.60000	16.00000	23.00000	-0.67145	22.933	-0.12385	-7.3429	106.62E-6	
10.45000	17.00000	23.00000	-0.27590	22.933	-727.20E-6	-6.60278	9.1858E-6	
10.30000	18.00000	23.00000	-0.15501	22.933	-80.795E-6	-0.20223	3.0893E-6	
10.15000	19.00000	23.00000	-0.096006	22.933	-19.988E-6	-0.098641	1.5077E-6	
10.00000	20.00000	23.00000	-0.061911	22.933	-7.1603E-6	-0.057152	0.0	
SW-NE 2	0.00000	12.00000	-0.0088863	22.933	0.0	-0.012983	0.0	
1.00000	12.00000	23.00000	-0.015400	22.933	0.0	-0.017107	0.0	
2.00000	12.00000	23.00000	-0.024469	22.933	-1.2397E-6	-0.023180	0.0	
3.00000	12.00000	23.00000	-0.037267	22.933	-2.1957E-6	-0.032503	0.0	
4.00000	12.00000	23.00000	-0.055694	22.933	-4.1927E-6	-0.047577	0.0	
5.00000	12.00000	23.00000	-0.083007	22.933	-8.8390E-6	-0.073630	1.1257E-6	
6.00000	12.00000	23.00000	-0.12519	22.933	-21.384E-6	-0.12289	1.8785E-6	
7.00000	12.00000	23.00000	-0.19432	22.933	-63.741E-6	-0.22891	3.4982E-6	
8.00000	12.00000	23.00000	-0.31860	22.933	-274.34E-6	-0.51108	7.8040E-6	
9.00000	12.00000	23.00000	-0.58292	22.933	-0.0027868	-1.6825	25.604E-6	
10.00000	12.00000	23.00000	-1.5275	22.933	-10.991	-55.162	339.35E-6	
11.00000	12.00000	23.00000	-2.6817	22.933	-59.990	-171.02	-136.92E-6	
12.00000	12.00000	23.00000	-2.6992	22.933	-59.991	-171.28	-132.99E-6	
13.00000	12.00000	23.00000	-1.6864	22.933	-29.998	-96.736	-49.811E-6	
14.00000	12.00000	23.00000	-0.58782	22.933	-0.0022662	-1.8039	27.439E-6	
15.00000	12.00000	23.00000	-0.31234	22.933	-295.39E-6	-0.51562	7.8725E-6	
16.00000	12.00000	23.00000	-0.18745	22.933	-64.469E-6	-0.22327	3.4118E-6	
17.00000	12.00000	23.00000	-0.11962	22.933	-20.794E-6	-0.11791	1.8025E-6	
18.00000	12.00000	23.00000	-65.078E-6	22.933	-8.4081E-6	-0.070165	1.0727E-6	
19.00000	12.00000	23.00000	-0.052592	22.933	-3.9436E-6	-0.045245	0.0	
20.00000	12.00000	23.00000	-0.034980	22.933	-2.0549E-6	-0.030920	0.0	
21.00000	12.00000	23.00000	-0.022780	22.933	-1.1584E-6	-0.022084	0.0	
22.00000	12.00000	23.00000	-0.014150	22.933	0.0	-0.016331	0.0	
23.00000	12.00000	23.00000	-0.0079617	22.933	0.0	-0.012420	0.0	
24.00000	12.00000	23.00000	-0.0034905	22.933	0.0	-0.0096683	0.0	
25.00000	12.00000	23.00000	-253.03E-6	22.933	0.0	-0.0076746	0.0	
26.00000	12.00000	23.00000	0.0020834	22.933	0.0	-0.0061944	0.0	
27.00000	12.00000	23.00000	0.0037537	22.933	0.0	-0.0050723	0.0	
28.00000	12.00000	23.00000	0.0049275	22.933	0.0	-0.0042060	0.0	
29.00000	12.00000	23.00000	0.0057290	22.933	0.0	-0.0035265	0.0	
30.00000	12.00000	23.00000	0.0062506	22.933	0.0	-0.0029860	0.0	

3A Mornington Crescent
BIA

Drained long term movements. Including basement loads

Analysis Options

Analysis: Boussinesq
Global Poisson's ratio: 0.20
Maximum allowable ratio between values of E: 1.5
Horizontal rigid boundary level: 0.00 [m OD]
Stiffness for horizontal displacement calculations: Weighted average
Using legacy heave correction factor: No
Displacements at load centroids: Yes

Soil Profiles/Soil Profile 1

Layer	Level at top	Number of intermediate displacement levels	Youngs Modulus	Poissons ratio	Non-linear curve
1	26.000	52	12150.0	0.20000	None

Soil Zones

Zone	Name	X coordinates min [m]	X coordinates max [m]	Y coordinates min [m]	Y coordinates max [m]	Profile
1	London Clay	0.00000	30.00000	0.00000	20.00000	Soil Profile 1

Load Data

Load ref.	Name	Shape	Orientation of Plane	Centre of load (Global) X, Y, Z [m]	Load position Angle of local x from [Degrees]	Width x [m]	or Radius	Length y [m]	Polygon Coordinates [m]	Rectangle tolerance [m]	Number of rectangles	Normal (local z) [kN/m²]	Tangential (local x) [kN/m²]	(local y) [kN/m²]
1	excavation	Polygonal	Horizontal	N/A, N/A, 23.00000	N/A	N/A	N/A	N/A	(11.7,10) (13,10) (13,13) (11.2,13) (11.2,15.7) (10.2,15.7) (10,11.1) (11.7,11.1) (11.7,10)	10.000	3	-56.000	N/A	N/A
2	basement wall load	Polygonal	Horizontal	N/A, N/A, 23.00000	N/A	N/A	N/A	N/A	(10,11.1) (13,11.1) (13,11.7) (10.6,11.7) (10.6,15.1) (11.1,15.1) (11.1,15.7) (10,11.1)	10.000	3	87.000	N/A	N/A

Polygonal Loads' Rectangles

No.	Centre of load X, Y [m]	Angle of local x from global X [Degrees]	Width x [m]	Depth y [m]
Load 1 : excavation				
(Edge 2 optimal)				
1	12.35000 10.55000	90.000	1.1000	1.3000
2	11.52065 12.05000	90.000	1.9000	2.9587
3	10.67065 14.35000	90.000	2.7000	1.0587
Load 2 : basement wall load				
(Edge 1 optimal)				
1	10.30000 13.40000	0.0	0.60000	4.6000
2	11.80000 11.40000	0.0	0.60000	0.60000
3	10.85000 15.40000	0.0	0.50000	0.60000

RESULTS FOR GRIDS

Analysis: Boussinesq
Global Poisson's ratio: 0.20
Horizontal rigid boundary level: 0.00 [m OD]

The maximum displacement difference between the Boussinesq method (-0.74487mm) and the Mindlin method (-0.73688mm) occurs at point X = 10.75000m, Y = 15.00000m, level = 23.000mOD, and is 0.0079816mm.

Name	X [m]	Location Y [m]	Z [level]	Displacement [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
excavation	11.39494	12.48727	23.00000	-2.9471	22.933	-55.961	-123.21	-0.0017338
basement wall load	10.81667	12.89333	23.00000	-2.1103	22.933	-55.480	-111.06	-0.0018093
Grid 1	0.00000	0.00000	23.00000	-0.0048231	22.933	0.0	-831.08E-6	0.0
	1.00000	0.00000	23.00000	-0.0056482	22.933	0.0	-948.39E-6	0.0
	2.00000	0.00000	23.00000	-0.0065780	22.933	0.0	-0.0010828	0.0
	3.00000	0.00000	23.00000	-0.0076128	22.933	0.0	-0.0012356	0.0
	4.00000	0.00000	23.00000	-0.0087465	22.933	0.0	-0.0014073	0.0
	5.00000	0.00000	23.00000	-0.0099641	22.933	0.0	-0.0015970	0.0
	6.00000	0.00000	23.00000	-0.011238	22.933	0.0	-0.0018016	0.0
	7.00000	0.00000	23.00000	-0.012529	22.933	0.0	-0.0020153	0.0
	8.00000	0.00000	23.00000	-0.013779	22.933	0.0	-0.0022288	0.0
	9.00000	0.00000	23.00000	-0.014920	22.933	0.0	-0.0024292	0.0
	10.00000	0.00000	23.00000	-0.015876	22.933	0.0	-0.0026010	0.0
	11.00000	0.00000	23.00000	-0.016572	22.933	0.0	-0.0027281	0.0
	12.00000	0.00000	23.00000	-0.016949	22.933	0.0	-0.0027973	0.0
	13.00000	0.00000	23.00000	-0.016973	22.933	0.0	-0.0028007	0.0
	14.00000	0.00000	23.00000	-0.016644	22.933	0.0	-0.0027385	0.0
	15.00000	0.00000	23.00000	-0.015994	22.933	0.0	-0.0026182	0.0
	16.00000	0.00000	23.00000	-0.015081	22.933	0.0	-0.0024530	0.0
	17.00000	0.00000	23.00000	-0.013978	22.933	0.0	-0.0022585	0.0
	18.00000	0.00000	23.00000	-0.012758	22.933	0.0	-0.0020497	0.0
	19.00000	0.00000	23.00000	-0.011490	22.933	0.0	-0.0018393	0.0
	20.00000	0.00000	23.00000	-0.010229	22.933	0.0	-0.0016355	0.0
	21.00000	0.00000	23.00000	-0.0090161	22.933	0.0	-0.0014472	0.0
	22.00000	0.00000	23.00000	-0.0078796	22.933	0.0	-0.0012748	0.0
	23.00000	0.00000	23.00000	-0.0068361	22.933	0.0	-0.0011204	0.0
	24.00000	0.00000	23.00000	-0.0058930	22.933	0.0	-983.73E-6	0.0
	25.00000	0.00000	23.00000	-0.005115	22.933	0.0	-863.90E-6	0.0
	26.00000	0.00000	23.00000	-0.0043082	22.933	0.0	-759.39E-6	0.0
	27.00000	0.00000	23.00000	-0.0036571	22.933	0.0	-668.57E-6	0.0
	28.00000	0.00000	23.00000	-0.0030906	22.933	0.0	-589.79E-6	0.0
	29.00000	0.00000	23.00000	-0.0026002	22.933	0.0	-521.51E-6	0.0
	30.00000	0.00000	23.00000	-0.0021778	22.933	0.0	-462.30E-6	0.0
	0.00000	0.66667	23.00000	-0.0052925	22.933	0.0	-897.37E-6	0.0
	1.00000	0.66667	23.00000	-0.0062284	22.933	0.0	-0.0010316	0.0
	2.00000	0.66667	23.00000	-0.0072931	22.933	0.0	-0.0011875	0.0
	3.00000	0.66667	23.00000	-0.0084901	22.933	0.0	-0.0013673	0.0
	4.00000	0.66667	23.00000	-0.0098163	22.933	0.0	-0.0015726	0.0
	5.00000	0.66667	23.00000	-0.011258	22.933	0.0	-0.0018032	0.0
	6.00000	0.66667	23.00000	-0.012785	22.933	0.0	-0.0020567	0.0
	7.00000	0.66667	23.00000	-0.014352	22.933	0.0	-0.0023265	0.0
	8.00000	0.66667	23.00000	-0.015890	22.933	0.0	-0.0026012	0.0
	9.00000	0.66667	23.00000	-0.017310	22.933	0.0	-0.0028866	0.0
	10.00000	0.66667	23.00000	-0.018512	22.933	0.0	-0.0030919	0.0
	11.00000	0.66667	23.00000	-0.019394	22.933	0.0	-0.0032629	0.0
	12.00000	0.66667	23.00000	-0.019872	22.933	0.0	-0.0033562	0.0
	13.00000	0.66667	23.00000	-0.019901	22.933	0.0	-0.0033603	0.0
	14.00000	0.66667	23.00000	-0.019478	22.933	0.0	-0.0032752	0.0
	15.00000	0.66667	23.00000	-0.018652	22.933	0.0	-0.0031126	0.0
	16.00000	0.66667	23.00000	-0.017502	22.933	0.0	-0.0028925	0.0
	17.00000	0.66667	23.00000	-0.016127	22.933	0.0	-0.0026375	0.0
	18.00000	0.66667	23.00000	-0.014626	22.933	0.0	-0.0023687	0.0
	19.00000	0.66667	23.00000	-0.013085	22.933	0.0	-0.0021028	0.0
	20.00000	0.66667	23.00000	-0.011572	22.933	0.0	-0.0018512	0.0
	21.00000	0.66667	23.00000	-0.010135	22.933	0.0	-0.0016206	0.0
	22.00000	0.66667	23.00000	-0.0088032	22.933	0.0	-0.0014140	0.0
	23.00000	0.66667	23.00000	-0.0075938	22.933	0.0	-0.0012318	0.0
	24.00000	0.66667	23.00000	-0.0065117	22.933	0.0	-0.0010728	0.0
	25.00000	0.66667	23.00000	-0.0055550	22.933	0.0	-935.26E-6	0.0
	26.00000	0.66667	23.00000	-0.0047170	22.933	0.0	-816.67E-6	0.0
	27.00000	0.66667	23.00000	-0.0039884	22.933	0.0	-714.69E-6	0.0
	28.00000	0.66667	23.00000	-0.0033588	22.933	0.0	-627.08E-6	0.0
	29.00000	0.66667	23.00000	-0.0028173	22.933	0.0	-551.78E-6	0.0

MGC-17-27

3A Mornington Crescent

BIA

Drained long term movements. Including basement loads

Drg. Ref.

 Made by
JGM

Date

Checked

Name	X [m]	Location Y [m]	Z[Level] [MOD]	Displacement Z [mm]	Calc Level [MOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
30.00000	0.66667	23.00000	-0.0023534	22.933	0.0	-486.99E-6	0.0	
0.00000	1.33333	23.00000	-0.0057888	22.933	0.0	-967.94E-6	0.0	
1.00000	1.33333	23.00000	-0.0068476	22.933	0.0	-0.0011213	0.0	
2.00000	1.33333	23.00000	-0.0080637	22.933	0.0	-0.0013019	0.0	
3.00000	1.33333	23.00000	-0.0094461	22.933	0.0	-0.0015135	0.0	
4.00000	1.33333	23.00000	-0.010996	22.933	0.0	-0.0017592	0.0	
5.00000	1.33333	23.00000	-0.012703	22.933	0.0	-0.0020406	0.0	
6.00000	1.33333	23.00000	-0.014537	22.933	0.0	-0.0023562	0.0	
7.00000	1.33333	23.00000	-0.016446	22.933	0.0	-0.0026995	0.0	
8.00000	1.33333	23.00000	-0.018441	22.933	0.0	-0.0030565	0.0	
9.00000	1.33333	23.00000	-0.020527	22.933	0.0	-0.0034408	0.0	
10.00000	1.33333	23.00000	-0.022651	22.933	0.0	-0.0037134	0.0	
11.00000	1.33333	23.00000	-0.024780	22.933	0.0	-0.0039476	0.0	
12.00000	1.33333	23.00000	-0.026934	22.933	0.0	-0.0040762	0.0	
13.00000	1.33333	23.00000	-0.029128	22.933	0.0	-0.0040809	0.0	
14.00000	1.33333	23.00000	-0.022880	22.933	0.0	-0.0039620	0.0	
15.00000	1.33333	23.00000	-0.021817	22.933	0.0	-0.0037382	0.0	
16.00000	1.33333	23.00000	-0.020356	22.933	0.0	-0.0034401	0.0	
17.00000	1.33333	23.00000	-0.018631	22.933	0.0	-0.0031013	0.0	
18.00000	1.33333	23.00000	-0.016775	22.933	0.0	-0.0027517	0.0	
19.00000	1.33333	23.00000	-0.014896	22.933	0.0	-0.0024131	0.0	
20.00000	1.33333	23.00000	-0.013077	22.933	0.0	-0.0020994	0.0	
21.00000	1.33333	23.00000	-0.011373	22.933	0.0	-0.0018174	0.0	
22.00000	1.33333	23.00000	-0.0098141	22.933	0.0	-0.0015694	0.0	
23.00000	1.33333	23.00000	-0.0083145	22.933	0.0	-0.0013414	0.0	
24.00000	1.33333	23.00000	-0.0071755	22.933	0.0	-0.0011696	0.0	
25.00000	1.33333	23.00000	-0.0063095	22.933	0.0	-0.0010118	0.0	
26.00000	1.33333	23.00000	-0.0055483	22.933	0.0	-0.0008774	0.0	
27.00000	1.33333	23.00000	-0.0049355	22.933	0.0	-0.0007631	0.0	
28.00000	1.33333	23.00000	-0.0044380	22.933	0.0	-0.0006658	0.0	
29.00000	1.33333	23.00000	-0.0040419	22.933	0.0	-0.0005832	0.0	
30.00000	1.33333	23.00000	-0.0025342	22.933	0.0	-0.0003713	0.0	
0.00000	2.00000	23.00000	-0.0063097	22.933	0.0	-0.0010426	0.0	
1.00000	2.00000	23.00000	-0.0075034	22.933	0.0	-0.0012175	0.0	
2.00000	2.00000	23.00000	-0.0088877	22.933	0.0	-0.0014231	0.0	
3.00000	2.00000	23.00000	-0.010482	22.933	0.0	-0.0016751	0.0	
4.00000	2.00000	23.00000	-0.012290	22.933	0.0	-0.0019694	0.0	
5.00000	2.00000	23.00000	-0.014311	22.933	0.0	-0.0023135	0.0	
6.00000	2.00000	23.00000	-0.016516	22.933	0.0	-0.0027082	0.0	
7.00000	2.00000	23.00000	-0.018949	22.933	0.0	-0.0031481	0.0	
8.00000	2.00000	23.00000	-0.021211	22.933	0.0	-0.0036173	0.0	
9.00000	2.00000	23.00000	-0.023459	22.933	0.0	-0.0040864	0.0	
10.00000	2.00000	23.00000	-0.025413	22.933	0.0	-0.0045113	0.0	
11.00000	2.00000	23.00000	-0.026875	22.933	0.0	-0.0048391	0.0	
12.00000	2.00000	23.00000	-0.027875	22.933	0.0	-0.0050905	0.0	
13.00000	2.00000	23.00000	-0.027713	22.933	0.0	-0.0050257	0.0	
14.00000	2.00000	23.00000	-0.026992	22.933	0.0	-0.0048555	0.0	
15.00000	2.00000	23.00000	-0.025609	22.933	0.0	-0.0045407	0.0	
16.00000	2.00000	23.00000	-0.023733	22.933	0.0	-0.0041296	0.0	
17.00000	2.00000	23.00000	-0.021453	22.933	0.0	-0.0036733	0.0	
18.00000	2.00000	23.00000	-0.019245	22.933	0.0	-0.0032136	0.0	
19.00000	2.00000	23.00000	-0.016947	22.933	0.0	-0.0027793	0.0	
20.00000	2.00000	23.00000	-0.014758	22.933	0.0	-0.0023862	0.0	
21.00000	2.00000	23.00000	-0.012738	22.933	0.0	-0.0020406	0.0	
22.00000	2.00000	23.00000	-0.010915	22.933	0.0	-0.0017236	0.0	
23.00000	2.00000	23.00000	-0.0092982	22.933	0.0	-0.0014887	0.0	
24.00000	2.00000	23.00000	-0.0078830	22.933	0.0	-0.0012741	0.0	
25.00000	2.00000	23.00000	-0.0066560	22.933	0.0	-0.0010934	0.0	
26.00000	2.00000	23.00000	-0.0056001	22.933	0.0	-0.0009456	0.0	
27.00000	2.00000	23.00000	-0.0046964	22.933	0.0	-0.0008135	0.0	
28.00000	2.00000	23.00000	-0.0039264	22.933	0.0	-0.0006996	0.0	
29.00000	2.00000	23.00000	-0.0032725	22.933	0.0	-0.0006076	0.0	
30.00000	2.00000	23.00000	-0.0027188	22.933	0.0	-0.0005386	0.0	
0.00000	2.66667	23.00000	-0.0068815	22.933	0.0	-0.0011208	0.0	
1.00000	2.66667	23.00000	-0.0081922	22.933	0.0	-0.0013414	0.0	
2.00000	2.66667	23.00000	-0.0097646	22.933	0.0	-0.0015607	0.0	
3.00000	2.66667	23.00000	-0.011595	22.933	0.0	-0.0018527	0.0	
4.00000	2.66667	23.00000	-0.013701	22.933	0.0	-0.0022050	0.0	
5.00000	2.66667	23.00000	-0.016091	22.933	0.0	-0.0026262	0.0	
6.00000	2.66667	23.00000	-0.018743	22.933	0.0	-0.0031218	0.0	
7.00000	2.66667	23.00000	-0.021602	22.933	0.0	-0.0036894	0.0	
8.00000	2.66667	23.00000	-0.024554	22.933	0.0	-0.0043129	0.0	
9.00000	2.66667	23.00000	-0.027419	22.933	0.0	-0.0049945	0.0	
10.00000	2.66667	23.00000	-0.029951	22.933	0.0	-0.0055518	0.0	
11.00000	2.66667	23.00000	-0.031872	22.933	0.0	-0.0060293	0.0	
12.00000	2.66667	23.00000	-0.032929	22.933	0.0	-0.0062851	0.0	
13.00000	2.66667	23.00000	-0.032973	22.933	0.0	-0.0062903	0.0	
14.00000	2.66667	23.00000	-0.032006	22.933	0.0	-0.0060399	0.0	
15.00000	2.66667	23.00000	-0.030182	22.933	0.0	-0.0055860	0.0	
16.00000	2.66667	23.00000	-0.027446	22.933	0.0	-0.0050789	0.0	
17.00000	2.66667	23.00000	-0.024968	22.933	0.0	-0.0043837	0.0	
18.00000	2.66667	23.00000	-0.022083	22.933	0.0	-0.0037729	0.0	
19.00000	2.66667	23.00000	-0.019265	22.933	0.0	-0.0032118	0.0	
20.00000	2.66667	23.00000	-0.016628	22.933	0.0	-0.0027172	0.0	
21.00000	2.66667	23.00000	-0.014234	22.933	0.0	-0.0022908	0.0	
22.00000	2.66667	23.00000	-0.012106	22.933	0.0	-0.0019345	0.0	
23.00000	2.66667	23.00000	-0.010243	22.933	0.0	-0.0016351	0.0	
24.00000	2.66667	23.00000	-0.0086316	22.933	0.0	-0.0013863	0.0	
25.00000	2.66667	23.00000	-0.0072488	22.933	0.0	-0.0011798	0.0	
26.00000	2.66667	23.00000	-0.0060897	22.933	0.0	-0.0010085	0.0	
27.00000	2.66667	23.00000	-0.0050687	22.933	0.0	-0.0008601	0.0	
28.00000	2.66667	23.00000	-0.0042220	22.933	0.0	-0.0007418	0.0	
29.00000	2.66667	23.00000	-0.0035075	22.933	0.0	-0.0006471	0.0	
30.00000	2.66667	23.00000	-0.0029058	22.933	0.0	-0.0005641	0.0	
0.00000	3.33333	23.00000	-0.0019933	22.933	0.0	-0.0012021	0.0	
1.00000	3.33333	23.00000	-0.0089084	22.933	0.0	-0.0014272	0.0	
2.00000	3.33333	23.00000	-0.010686	22.933	0.0	-0.0017043	0.0	
3.00000	3.33333	23.00000	-0.012780	22.933	0.0	-0.0020461	0.0	
4.00000	3.33333	23.00000	-0.015227	22.933	0.0	-0.0024671	0.0	
5.00000	3.33333	23.00000	-0.018048	22.933	0.0	-0.0029827	0.0	
6.00000	3.33333	23.00000	-0.021239	22.933	0.0	-0.0036064	0.0	
7.00000	3.33333	23.00000	-0.024751	22.933	0.0	-0.0043435	0.0	
8.00000	3.33333	23.00000	-0.028459	22.933	0.0	-0.0051812	0.0	
9.00000	3.33333	23.00000	-0.032142	22.933	0.0	-0.0060742	0.0	
10.00000	3.33333	23.00000	-0.035468	22.933	0.0	-0.0069229	0.0	
11.00000	3.33333	23.00000	-0.038033	22.933	0.0	-0.0076275	0.0	
12.00000	3.33333	23.00000	-0.039457	22.933	0.0	-0.0080208	0.0	
13.00000	3.33333	23.00000	-0.039505	22.933	0.0	-0.0080246	0.0	
14.00000	3.33333	23.00000	-0.038185	22.933	0.0	-0.0076438	0.0	
15.00000	3.33333	23.00000	-0.035737	22.933	0.0	-0.0071512	0.0	
16.00000	3.33333	23.00000	-0.032535	22.933	0.0	-0.0066140	0.0	
17.00000	3.33333	23.00000	-0.028963	22.933	0.0	-0.0052725	0.0	
18.00000	3.33333	23.00000	-0.025338	22.933	0.0	-0.0044520	0.0	
19.00000	3.33333	23.00000	-0.021874	22.933	0.0	-0.0037224	0.0	
20.00000	3.33333	23.00000	-0.018697	22.933	0.0	-0.0030983	0.0	
21.00000	3.33333	23.00000	-0.015863	22.933	0.0	-0.0025763	0.0	
22.00000	3.33333	23.00000	-0.013384	22.933	0.0	-0.0021460	0.0	
23.00000	3.33333	23.00000	-0.011245	22.933	0.0	-0.0017936	0.0	
24.00000	3.33333	23.00000	-0.0094168	22.933	0.0	-0.0015059	0.0	
25.00000	3.33333	23.00000	-0.0078447	22.933	0.0	-0.0012703	0.0	
26.00000	3.33333	23.00000	-0.0065534	22.933	0.0	-0.0010781		

MGC-17-27
**3A Mornington Crescent
BIA**
Dr. Ref.
Drained long term movements. Including basement loads
**Made by
JGM**
Date
Checked

Name	X [m]	Location Y [m]	Z[Level] [MOD]	Displacement Z [mm]	Calc Level [MOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
16.00000	4.00000	23.00000	-0.038271	22.933	0.0	-0.0076173	0.0	
17.00000	4.00000	23.00000	-0.033638	22.933	0.0	-0.0063911	0.0	
18.00000	4.00000	23.00000	-0.029060	22.933	0.0	-0.0052777	0.0	
19.00000	4.00000	23.00000	-0.024794	22.933	0.0	-0.0043238	0.0	
20.00000	4.00000	23.00000	-0.020968	22.933	0.0	-0.0035342	0.0	
21.00000	4.00000	23.00000	-0.017622	22.933	0.0	-0.0028929	0.0	
22.00000	4.00000	23.00000	-0.014744	22.933	0.0	-0.0023772	0.0	
23.00000	4.00000	23.00000	-0.012297	22.933	0.0	-0.0019637	0.0	
24.00000	4.00000	23.00000	-0.010232	22.933	0.0	-0.0016321	0.0	
25.00000	4.00000	23.00000	-0.008490	22.933	0.0	-0.0013653	0.0	
26.00000	4.00000	23.00000	-0.0070466	22.933	0.0	-0.0011497	0.0	
27.00000	4.00000	23.00000	-0.0058346	22.933	0.0	-974.59E-6	0.0	
28.00000	4.00000	23.00000	-0.0048239	22.933	0.0	-831.40E-6	0.0	
29.00000	4.00000	23.00000	-0.0039818	22.933	0.0	-713.63E-6	0.0	
30.00000	4.00000	23.00000	-0.0032805	22.933	0.0	-616.15E-6	0.0	
0.00000	4.66667	23.00000	-0.0085466	22.933	0.0	-0.0013700	0.0	
1.00000	4.66667	23.00000	-0.010391	22.933	0.0	-0.0016539	0.0	
2.00000	4.66667	23.00000	-0.012626	22.933	0.0	-0.0020145	0.0	
3.00000	4.66667	23.00000	-0.015329	22.933	0.0	-0.0024759	0.0	
4.00000	4.66667	23.00000	-0.018585	22.933	0.0	-0.0030698	0.0	
5.00000	4.66667	23.00000	-0.022479	22.933	0.0	-0.0038366	0.0	
6.00000	4.66667	23.00000	-0.027076	22.933	0.0	-0.0048244	0.0	
7.00000	4.66667	23.00000	-0.032392	22.933	0.0	-0.0060824	0.0	
8.00000	4.66667	23.00000	-0.038331	22.933	0.0	-0.0076401	0.0	
9.00000	4.66667	23.00000	-0.044996	22.933	0.0	-0.0094635	0.0	
10.00000	4.66667	23.00000	-0.050602	22.933	-1.3606E-6	-0.011388	0.0	
11.00000	4.66667	23.00000	-0.055470	22.933	-1.7369E-6	-0.013071	0.0	
12.00000	4.66667	23.00000	-0.058240	22.933	-1.9736E-6	-0.014066	0.0	
13.00000	4.66667	23.00000	-0.058278	22.933	-1.9622E-6	-0.014052	0.0	
14.00000	4.66667	23.00000	-0.056247	22.933	-1.7147E-6	-0.013455	0.0	
15.00000	4.66667	23.00000	-0.050946	22.933	-1.3487E-6	-0.011420	0.0	
16.00000	4.66667	23.00000	-0.045167	22.933	0.0	-0.0095681	0.0	
17.00000	4.66667	23.00000	-0.039102	22.933	0.0	-0.0078057	0.0	
18.00000	4.66667	23.00000	-0.033297	22.933	0.0	-0.0062805	0.0	
19.00000	4.66667	23.00000	-0.028339	22.933	0.0	-0.0052959	0.0	
20.00000	4.66667	23.00000	-0.023440	22.933	0.0	-0.0040297	0.0	
21.00000	4.66667	23.00000	-0.019502	22.933	0.0	-0.0032434	0.0	
22.00000	4.66667	23.00000	-0.016176	22.933	0.0	-0.0026273	0.0	
23.00000	4.66667	23.00000	-0.013390	22.933	0.0	-0.0021442	0.0	
24.00000	4.66667	23.00000	-0.011069	22.933	0.0	-0.0017659	0.0	
25.00000	4.66667	23.00000	-0.0091416	22.933	0.0	-0.0014627	0.0	
26.00000	4.66667	23.00000	-0.0075435	22.933	0.0	-0.0012226	0.0	
27.00000	4.66667	23.00000	-0.0062198	22.933	0.0	-0.0010297	0.0	
28.00000	4.66667	23.00000	-0.0051237	22.933	0.0	-873.58E-6	0.0	
29.00000	4.66667	23.00000	-0.0042160	22.933	0.0	-746.25E-6	0.0	
30.00000	4.66667	23.00000	-0.0034641	22.933	0.0	-641.64E-6	0.0	
0.00000	5.33333	23.00000	-0.0091090	22.933	0.0	-0.0014539	0.0	
1.00000	5.33333	23.00000	-0.011135	22.933	0.0	-0.0017695	0.0	
2.00000	5.33333	23.00000	-0.013617	22.933	0.0	-0.0021765	0.0	
3.00000	5.33333	23.00000	-0.016558	22.933	0.0	-0.0027495	0.0	
4.00000	5.33333	23.00000	-0.020381	22.933	0.0	-0.0034049	0.0	
5.00000	5.33333	23.00000	-0.024918	22.933	0.0	-0.0043317	0.0	
6.00000	5.33333	23.00000	-0.030405	22.933	0.0	-0.0055678	0.0	
7.00000	5.33333	23.00000	-0.036936	22.933	0.0	-0.0072118	0.0	
8.00000	5.33333	23.00000	-0.044489	22.933	0.0	-0.0092943	0.0	
9.00000	5.33333	23.00000	-0.052779	22.933	-1.4729E-6	-0.012034	0.0	
10.00000	5.33333	23.00000	-0.061064	22.933	-2.2011E-6	-0.015051	0.0	
11.00000	5.33333	23.00000	-0.068034	22.933	-2.9869E-6	-0.017852	0.0	
12.00000	5.33333	23.00000	-0.072084	22.933	-3.5088E-6	-0.019567	0.0	
13.00000	5.33333	23.00000	-0.072089	22.933	-3.4742E-6	-0.019515	0.0	
14.00000	5.33333	23.00000	-0.068138	22.933	-2.9219E-6	-0.017768	0.0	
15.00000	5.33333	23.00000	-0.061428	22.933	-2.1660E-6	-0.015055	0.0	
16.00000	5.33333	23.00000	-0.053475	22.933	-1.4836E-6	-0.012173	0.0	
17.00000	5.33333	23.00000	-0.045467	22.933	0.0	-0.0095981	0.0	
18.00000	5.33333	23.00000	-0.038333	22.933	0.0	-0.0074935	0.0	
19.00000	5.33333	23.00000	-0.031610	22.933	0.0	-0.0058479	0.0	
20.00000	5.33333	23.00000	-0.026099	22.933	0.0	-0.0045868	0.0	
21.00000	5.33333	23.00000	-0.021486	22.933	0.0	-0.0036265	0.0	
22.00000	5.33333	23.00000	-0.017662	22.933	0.0	-0.0028944	0.0	
23.00000	5.33333	23.00000	-0.014509	22.933	0.0	-0.0023522	0.0	
24.00000	5.33333	23.00000	-0.011916	22.933	0.0	-0.0018996	0.0	
25.00000	5.33333	23.00000	-0.0097867	22.933	0.0	-0.0015616	0.0	
26.00000	5.33333	23.00000	-0.0080375	22.933	0.0	-0.0012957	0.0	
27.00000	5.33333	23.00000	-0.0066000	22.933	0.0	-0.0010844	0.0	
28.00000	5.33333	23.00000	-0.0054177	22.933	0.0	-915.09E-6	0.0	
29.00000	5.33333	23.00000	-0.0044444	22.933	0.0	-778.12E-6	0.0	
30.00000	5.33333	23.00000	-0.0036423	22.933	0.0	-666.37E-6	0.0	
0.00000	6.00000	23.00000	-0.0096537	22.933	0.0	-0.0015356	0.0	
1.00000	6.00000	23.00000	-0.011862	22.933	0.0	-0.0018835	0.0	
2.00000	6.00000	23.00000	-0.014596	22.933	0.0	-0.0023493	0.0	
3.00000	6.00000	23.00000	-0.017990	22.933	0.0	-0.0029420	0.0	
4.00000	6.00000	23.00000	-0.022211	22.933	0.0	-0.0037541	0.0	
5.00000	6.00000	23.00000	-0.027458	22.933	0.0	-0.0048627	0.0	
6.00000	6.00000	23.00000	-0.033961	22.933	0.0	-0.0063952	0.0	
7.00000	6.00000	23.00000	-0.041949	22.933	0.0	-0.0085310	0.0	
8.00000	6.00000	23.00000	-0.051556	22.933	-1.3164E-6	-0.011495	0.0	
9.00000	6.00000	23.00000	-0.062615	22.933	-2.2558E-6	-0.015480	0.0	
10.00000	6.00000	23.00000	-0.074272	22.933	-3.7206E-6	-0.020376	0.0	
11.00000	6.00000	23.00000	-0.084583	22.933	-5.5059E-6	-0.025305	0.0	
12.00000	6.00000	23.00000	-0.092759	22.933	-6.7879E-6	-0.028483	0.0	
13.00000	6.00000	23.00000	-0.099672	22.933	-6.6749E-6	-0.028328	0.0	
14.00000	6.00000	23.00000	-0.084533	22.933	-5.3064E-6	-0.025038	0.0	
15.00000	6.00000	23.00000	-0.074617	22.933	-3.6233E-6	-0.020304	0.0	
16.00000	6.00000	23.00000	-0.063484	22.933	-2.2807E-6	-0.015680	0.0	
17.00000	6.00000	23.00000	-0.052031	22.933	-1.3951E-6	-0.011964	0.0	
18.00000	6.00000	23.00000	-0.043432	22.933	0.0	-0.0089475	0.0	
19.00000	6.00000	23.00000	-0.035485	22.933	0.0	-0.0067882	0.0	
20.00000	6.00000	23.00000	-0.028916	22.933	0.0	-0.0052039	0.0	
21.00000	6.00000	23.00000	-0.023546	22.933	0.0	-0.0040388	0.0	
22.00000	6.00000	23.00000	-0.019180	22.933	0.0	-0.0031543	0.0	
23.00000	6.00000	23.00000	-0.015637	22.933	0.0	-0.0025279	0.0	
24.00000	6.00000	23.00000	-0.012760	22.933	0.0	-0.0020371	0.0	
25.00000	6.00000	23.00000	-0.010423	22.933	0.0	-0.0016604	0.0	
26.00000	6.00000	23.00000	-0.0085207	22.933	0.0	-0.0013679	0.0	
27.00000	6.00000	23.00000	-0.0069593	22.933	0.0	-0.0011380	0.0	
28.00000	6.00000	23.00000	-0.0057016	22.933	0.0	-955.35E-6	0.0	
29.00000	6.00000	23.00000	-0.0046638	22.933	0.0	-808.79E-6	0.0	
30.00000	6.00000	23.00000	-0.0038127	22.933	0.0	-690.03E-6	0.0	
0.00000	6.66667	23.00000	-0.010169	22.933	0.0	-0.0016131	0.0	
1.00000	6.66667	23.00000	-0.012556	22.933	0.0	-0.0019928	0.0	
2.00000	6.66667	23.00000	-0.015541	22.933	0.0	-0.0024959	0.0	
3.00000	6.66667	23.00000	-0.019293	22.933	0.0	-0.0031744	0.0	
4.00000	6.66667	23.00000	-0.024030	22.933	0.0	-0.0041066	0.0	
5.00000	6.66667	23.00000	-0.030035	22.933	0.0	-0.0054133	0.0	
6.00000	6.66667	23.00000	-0.036668	22.933	0.0	-0.0072847	0.0	
7.00000	6.66667	23.00000	-0.047356	22.933	0.0	-0.010022	0.0	
8.00000	6.66667	23.00000	-0.059528	22.933	-1.8174E-6	-0.014088	0.0	
9.00000	6.66667	23.00000	-0.074354	22.933	-3.4890E-6	-0.020077	0.0	
10.00000	6.66667	23.00000	-0.091084	22.933	-6.5981E-6	-0.028309	0.0	
11.00000	6.66667	23.00000	-0.106594	22.933	-11.095			

Name	X [m]	Location Y [m]	Z [Level] [mOD]	Displacement Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
2.00000	7.33333	23.00000	-0.016425	22.933	0.0	-0.0026434	0.0	
3.00000	7.33333	23.00000	-0.020526	22.933	0.0	-0.0033951	0.0	
4.00000	7.33333	23.00000	-0.025779	22.933	0.0	-0.0044471	0.0	
5.00000	7.33333	23.00000	-0.032563	22.933	0.0	-0.0059576	0.0	
6.00000	7.33333	23.00000	-0.041400	22.933	0.0	-0.0081922	0.0	
7.00000	7.33333	23.00000	-0.052995	22.933	-1.19999E-6	-0.011618	0.0	
8.00000	7.33333	23.00000	-0.068256	22.933	-2.4046E-6	-0.017083	0.0	
9.00000	7.33333	23.00000	-0.088107	22.933	-5.3336E-6	-0.026055	0.0	
10.00000	7.33333	23.00000	-0.11255	22.933	-12.270E-6	-0.040355	0.0	
11.00000	7.33333	23.00000	-0.143810	22.933	-25.138E-6	-0.059374	0.0	
12.00000	7.33333	23.00000	-0.18534	22.933	-37.573E-6	-0.074364	0.0	
13.00000	7.33333	23.00000	-0.23836	22.933	-50.000E-6	-0.097286	0.0	
14.00000	7.33333	23.00000	-0.30299	22.933	-63.417E-6	-0.012711	0.0	
15.00000	7.33333	23.00000	-0.37833	22.933	-77.824E-6	-0.016773	0.0	
16.00000	7.33333	23.00000	-0.46438	22.933	-93.132E-6	-0.021894	0.0	
17.00000	7.33333	23.00000	-0.56214	22.933	-1.0944E-5	-0.028286	0.0	
18.00000	7.33333	23.00000	-0.67262	22.933	-1.2676E-5	-0.035974	0.0	
19.00000	7.33333	23.00000	-0.79683	22.933	-1.4519E-5	-0.045111	0.0	
20.00000	7.33333	23.00000	-0.93487	22.933	-1.6474E-5	-0.055829	0.0	
21.00000	7.33333	23.00000	-1.09773	22.933	-1.8542E-5	-0.068200	0.0	
22.00000	7.33333	23.00000	-1.28649	22.933	-2.0724E-5	-0.082354	0.0	
23.00000	7.33333	23.00000	-1.50216	22.933	-2.3031E-5	-0.098280	0.0	
24.00000	7.33333	23.00000	-1.74572	22.933	-2.5464E-5	-0.012363	0.0	
25.00000	7.33333	23.00000	-2.01818	22.933	-2.8024E-5	-0.018501	0.0	
26.00000	7.33333	23.00000	-2.32055	22.933	-3.0711E-5	-0.026111	0.0	
27.00000	7.33333	23.00000	-2.65483	22.933	-3.3524E-5	-0.035579	0.0	
28.00000	7.33333	23.00000	-3.02202	22.933	-3.6464E-5	-0.047329	0.0	
29.00000	7.33333	23.00000	-3.42413	22.933	-3.9531E-5	-0.061960	0.0	
30.00000	7.33333	23.00000	-3.86316	22.933	-4.2724E-5	-0.079974	0.0	
1.00000	8.00000	23.00000	-0.013771	22.933	0.0	-0.0021835	0.0	
2.00000	8.00000	23.00000	-0.017219	22.933	0.0	-0.0027747	0.0	
3.00000	8.00000	23.00000	-0.021646	22.933	0.0	-0.0035934	0.0	
4.00000	8.00000	23.00000	-0.027389	22.933	0.0	-0.0047567	0.0	
5.00000	8.00000	23.00000	-0.03434	22.933	0.0	-0.0062007	0.0	
6.00000	8.00000	23.00000	-0.042493	22.933	0.0	-0.0080455	0.0	
7.00000	8.00000	23.00000	-0.051859	22.933	-1.3322E-6	-0.013167	0.0	
8.00000	8.00000	23.00000	-0.077347	22.933	-2.8570E-6	-0.020199	0.0	
9.00000	8.00000	23.00000	-0.10359	22.933	-7.6031E-6	-0.03258	0.0	
10.00000	8.00000	23.00000	-0.13965	22.933	-23.540E-6	-0.058579	0.0	
11.00000	8.00000	23.00000	-0.18308	22.933	-66.711E-6	-0.10160	0.0	
12.00000	8.00000	23.00000	-0.21613	22.933	-122.91E-6	-0.14323	1.1623E-6	
13.00000	8.00000	23.00000	-0.21320	22.933	-112.09E-6	-0.13735	1.1149E-6	
14.00000	8.00000	23.00000	-0.17917	22.933	-55.592E-6	-0.094490	0.0	
15.00000	8.00000	23.00000	-0.13939	22.933	-21.917E-6	-0.057429	0.0	
16.00000	8.00000	23.00000	-0.10621	22.933	-8.9179E-6	-0.035107	0.0	
17.00000	8.00000	23.00000	-0.08100	22.933	-3.9995E-6	-0.022348	0.0	
18.00000	8.00000	23.00000	-0.062236	22.933	-1.9673E-6	-0.014845	0.0	
19.00000	8.00000	23.00000	-0.048249	22.933	-1.0443E-6	-0.010244	0.0	
20.00000	8.00000	23.00000	-0.037732	22.933	-0.0	-0.0073074	0.0	
21.00000	8.00000	23.00000	-0.029739	22.933	0.0	-0.0053637	0.0	
22.00000	8.00000	23.00000	-0.023599	22.933	0.0	-0.0040358	0.0	
23.00000	8.00000	23.00000	-0.018833	22.933	0.0	-0.0031029	0.0	
24.00000	8.00000	23.00000	-0.015102	22.933	0.0	-0.0024310	0.0	
25.00000	8.00000	23.00000	-0.012158	22.933	0.0	-0.0019164	0.0	
26.00000	8.00000	23.00000	-0.0098184	22.933	0.0	-0.0015652	0.0	
27.00000	8.00000	23.00000	-0.0079485	22.933	0.0	-0.0012817	0.0	
28.00000	8.00000	23.00000	-0.0064463	22.933	0.0	-0.0010618	0.0	
29.00000	8.00000	23.00000	-0.0052340	22.933	0.0	-888.88E-6	0.0	
30.00000	8.00000	23.00000	-0.0042819	22.933	0.0	-751.13E-6	0.0	
0.00000	8.66667	23.00000	-0.011415	22.933	0.0	-0.0017988	0.0	
1.00000	8.66667	23.00000	-0.014256	22.933	0.0	-0.0022577	0.0	
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3.00000	8.66667	23.00000	-0.022606	22.933	0.0	-0.0037583	0.0	
4.00000	8.66667	23.00000	-0.028786	22.933	0.0	-0.0050143	0.0	
5.00000	8.66667	23.00000	-0.037020	22.933	0.0	-0.0068762	0.0	
6.00000	8.66667	23.00000	-0.048196	22.933	0.0	-0.0097455	0.0	
7.00000	8.66667	23.00000	-0.063732	22.933	-1.2186E-6	-0.014410	0.0	
8.00000	8.66667	23.00000	-0.086040	22.933	-2.4656E-6	-0.022719	0.0	
9.00000	8.66667	23.00000	-0.113959	22.933	-8.1570E-6	-0.040154	0.0	
10.00000	8.66667	23.00000	-0.17229	22.933	-43.234E-6	-0.084085	0.0	
11.00000	8.66667	23.00000	-0.25027	22.933	-220.09E-6	-0.19320	1.5651E-6	
12.00000	8.66667	23.00000	-0.32366	22.933	-614.45E-6	-0.34582	2.7908E-6	
13.00000	8.66667	23.00000	-0.31395	22.933	-514.65E-6	-0.31589	2.5515E-6	
14.00000	8.66667	23.00000	-0.23999	22.933	-157.99E-6	-0.16829	1.3648E-6	
15.00000	8.66667	23.00000	-0.17222	22.933	-41.880E-6	-0.083536	0.0	
16.00000	8.66667	23.00000	-0.12452	22.933	-13.712E-6	-0.045495	0.0	
17.00000	8.66667	23.00000	-0.091735	22.933	-5.4515E-6	-0.027037	0.0	
18.00000	8.66667	23.00000	-0.068816	22.933	-2.4895E-6	-0.017175	0.0	
19.00000	8.66667	23.00000	-0.051338	22.933	-1.2570E-6	-0.011491	0.0	
20.00000	8.66667	23.00000	-0.040486	22.933	0.0	-0.0080154	0.0	
21.00000	8.66667	23.00000	-0.031600	22.933	0.0	-0.0057862	0.0	
22.00000	8.66667	23.00000	-0.024886	22.933	0.0	-0.0042988	0.0	
23.00000	8.66667	23.00000	-0.019742	22.933	0.0	-0.0032726	0.0	
24.00000	8.66667	23.00000	-0.015755	22.933	0.0	-0.0025440	0.0	
25.00000	8.66667	23.00000	-0.012633	22.933	0.0	-0.0020138	0.0	
26.00000	8.66667	23.00000	-0.010169	22.933	0.0	-0.0016195	0.0	
27.00000	8.66667	23.00000	-0.0082102	22.933	0.0	-0.0013206	0.0	
28.00000	8.66667	23.00000	-0.0066433	22.933	0.0	-0.0010902	0.0	
29.00000	8.66667	23.00000	-0.0053636	22.933	0.0	-909.99E-6	0.0	
30.00000	8.66667	23.00000	-0.0043664	22.933	0.0	-767.05E-6	0.0	
0.00000	9.33333	23.00000	-0.011690	22.933	0.0	-0.0018379	0.0	
1.00000	9.33333	23.00000	-0.014635	22.933	0.0	-0.0023133	0.0	
2.00000	9.33333	23.00000	-0.018425	22.933	0.0	-0.0029645	0.0	
3.00000	9.33333	23.00000	-0.023363	22.933	0.0	-0.0038770	0.0	
4.00000	9.33333	23.00000	-0.029895	22.933	0.0	-0.0051984	0.0	
5.00000	9.33333	23.00000	-0.038689	22.933	0.0	-0.0071615	0.0	
6.00000	9.33333	23.00000	-0.050794	22.933	0.0	-0.010180	0.0	
7.00000	9.33333	23.00000	-0.067927	22.933	0.0	-0.015000	0.0	
8.00000	9.33333	23.00000	-0.091700	22.933	0.0	-0.023250	0.0	
9.00000	9.33333	23.00000	-0.13325	22.933	3.7146E-6	-0.041260	0.0	
10.00000	9.33333	23.00000	-0.20610	22.933	-48.312E-6	-0.10719	0.0	
11.00000	9.33333	23.00000	-0.35092	22.933	-958.51E-6	-0.41386	3.3289E-6	
12.00000	9.33333	23.00000	-0.55654	22.933	-0.0078302	-1.3468	10.602E-6	
13.00000	9.33333	23.00000	-0.81533	22.933	-0.0054265	-1.0816	8.5566E-6	
14.00000	9.33333	23.00000	-0.32486	22.933	-506.14E-6	-0.31685	2.5598E-6	
15.00000	9.33333	23.00000	-0.20973	22.933	-75.838E-6	-0.11866	0.0	
16.00000	9.33333	23.00000	-0.14351	22.933	-19.904E-6	-0.057330	0.0	
17.00000	9.33333	23.00000	-0.10224	22.933	-7.1040E-6	-0.031936	0.0	
18.00000	9.33333	23.00000	-0.074998	22.933	-3.0407E-6	-0.019476	0.0	
19.00000	9.33333	23.00000	-0.056260	22.933	-1.4700E-6	-0.012674	0.0	
20.00000	9.33333	23.00000	-0.042945	22.933	0.0	-0.0086671	0.0	
21.00000	9.33333	23.00000	-0.033235	22.933	0.0	-0.0061662	0.0	
22.00000	9.33333	23.00000	-0.026002	22.933	0.0	-0.0045311	0.0	
23.00000	9.33333	23.00000	-0.020522	22.933	0.0	-0.0034203	0.0	
24.00000	9.33333	23.00000	-0.016310	22.933	0.0	-0.0026413	0.0	
25.00000	9.33333	23.00000	-0.013035	22.933	0.0	-0.0020797	0.0	
26.00000	9.33333	23.00000	-0.010464	22.933	0.0	-0.0016654	0.0	
27.00000	9.33333	23.00000	-0.0084292	22.933	0.0	-0.0013533	0.0	
28.00000	9.33333	23.00000	-0.0068076	22.933	0.0	-0.0011000	0.0	
29.00000								

MGC-17-27
3A Mornington Crescent
BIA
Drained long term movements. Including basement loads
Dr. Ref.
**Made by
JGM**
Date
Checked

Name	X [m]	Location Y [m]	Z[Level] [mOD]	Displacement Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
19.00000	10.00000	23.00000	-0.059474	22.933	-1.6624E-6	-0.013699	0.0	
20.00000	10.00000	23.00000	-0.044974	22.933	0.0	-0.0092183	0.0	
21.00000	10.00000	23.00000	-0.034564	22.933	0.0	-0.0064815	0.0	
22.00000	10.00000	23.00000	-0.026900	22.933	0.0	-0.0047209	0.0	
23.00000	10.00000	23.00000	-0.021144	22.933	0.0	-0.0035397	0.0	
24.00000	10.00000	23.00000	-0.016750	22.933	0.0	-0.0027191	0.0	
25.00000	10.00000	23.00000	-0.013352	22.933	0.0	-0.0021321	0.0	
26.00000	10.00000	23.00000	-0.010695	22.933	0.0	-0.0017016	0.0	
27.00000	10.00000	23.00000	-0.0086001	22.933	0.0	-0.0013789	0.0	
28.00000	10.00000	23.00000	-0.0071659	22.933	0.0	-0.0011325	0.0	
29.00000	10.00000	23.00000	-0.0056043	22.933	0.0	-941.22E-6	0.0	
30.00000	10.00000	23.00000	-0.0045345	22.933	0.0	-790.49E-6	0.0	
0.00000	10.66667	23.00000	-0.011977	22.933	0.0	-0.0018725	0.0	
1.00000	10.66667	23.00000	-0.015024	22.933	0.0	-0.0023589	0.0	
2.00000	10.66667	23.00000	-0.018964	22.933	0.0	-0.0030240	0.0	
3.00000	10.66667	23.00000	-0.024122	22.933	0.0	-0.0039533	0.0	
4.00000	10.66667	23.00000	-0.030990	22.933	0.0	-0.0052788	0.0	
5.00000	10.66667	23.00000	-0.040313	22.933	0.0	-0.0071949	0.0	
6.00000	10.66667	23.00000	-0.053263	22.933	0.0	-0.0099113	0.0	
7.00000	10.66667	23.00000	-0.071659	22.933	3.0647E-6	-0.013113	0.0	
8.00000	10.66667	23.00000	-0.097930	22.933	27.859E-6	-0.011521	0.0	
9.00000	10.66667	23.00000	-0.13232	22.933	389.49E-6	0.050299	0.0	
10.00000	10.66667	23.00000	-0.17217	22.933	0.013063	0.77075	-5.6476E-6	
11.00000	10.66667	23.00000	-0.49155	22.933	0.013369	-920.22E-6	0.0	
12.00000	10.66667	23.00000	-1.54467	22.933	-55.807	-116.31	-0.001732	
13.00000	10.66667	23.00000	-1.6727	22.933	-27.962	-60.908	-871.68E-6	
14.00000	10.66667	23.00000	-0.49868	22.933	-0.0018018	-0.69369	5.5702E-6	
15.00000	10.66667	23.00000	-0.27733	22.933	-146.74E-6	-0.18708	1.5188E-6	
16.00000	10.66667	23.00000	-0.17529	22.933	-31.734E-6	-0.078595	0.0	
17.00000	10.66667	23.00000	-0.118827	22.933	-10.063E-6	-0.041600	0.0	
18.00000	10.66667	23.00000	-0.084337	22.933	-3.9700E-6	-0.023131	0.0	
19.00000	10.66667	23.00000	-0.061845	22.933	-1.8114E-6	-0.014473	0.0	
20.00000	10.66667	23.00000	-0.046448	22.933	0.0	-0.0096265	0.0	
21.00000	10.66667	23.00000	-0.035519	22.933	0.0	-0.0067116	0.0	
22.00000	10.66667	23.00000	-0.025667	22.933	-0.0048339	-0.0048578	0.0	
23.00000	10.66667	23.00000	-0.021583	22.933	0.0	-0.0036249	0.0	
24.00000	10.66667	23.00000	-0.017059	22.933	0.0	-0.0027742	0.0	
25.00000	10.66667	23.00000	-0.013573	22.933	0.0	-0.0021689	0.0	
26.00000	10.66667	23.00000	-0.010856	22.933	0.0	-0.0017269	0.0	
27.00000	10.66667	23.00000	-0.008186	22.933	0.0	-0.0013929	0.0	
28.00000	10.66667	23.00000	-0.0070236	22.933	0.0	-0.0011454	0.0	
29.00000	10.66667	23.00000	-0.0056708	22.933	0.0	-950.64E-6	0.0	
30.00000	10.66667	23.00000	-0.0045849	22.933	0.0	-797.53E-6	0.0	
0.00000	11.33333	23.00000	-0.011978	22.933	0.0	-0.0018665	0.0	
1.00000	11.33333	23.00000	-0.015020	22.933	0.0	-0.0023450	0.0	
2.00000	11.33333	23.00000	-0.018947	22.933	0.0	-0.0029984	0.0	
3.00000	11.33333	23.00000	-0.024081	22.933	0.0	-0.0038990	0.0	
4.00000	11.33333	23.00000	-0.030897	22.933	0.0	-0.0051589	0.0	
5.00000	11.33333	23.00000	-0.040116	22.933	0.0	-0.0069112	0.0	
6.00000	11.33333	23.00000	-0.052846	22.933	0.0	-0.0091821	0.0	
7.00000	11.33333	23.00000	-0.070707	22.933	5.7828E-6	-0.010717	0.0	
8.00000	11.33333	23.00000	-0.095101	22.933	51.350E-6	-298.96E-6	0.0	
9.00000	11.33333	23.00000	-0.11605	22.933	0.0010677	0.16965	-1.3316E-6	
10.00000	11.33333	23.00000	-0.37487	22.933	33.137	54.740	0.0011752	
11.00000	11.33333	23.00000	-0.057478	22.933	30.764	58.504	0.0010279	
12.00000	11.33333	23.00000	-0.77232	22.933	30.510	50.910	0.0010779	
13.00000	11.33333	23.00000	-0.81926	22.933	15.244	24.251	548.27E-6	
14.00000	11.33333	23.00000	-0.53177	22.933	-0.0013152	-0.67900	5.4742E-6	
15.00000	11.33333	23.00000	-0.29556	22.933	-158.41E-6	-0.20381	1.6547E-6	
16.00000	11.33333	23.00000	-0.11372	22.933	-34.793E-6	-0.041572	0.0	
17.00000	11.33333	23.00000	-0.12304	22.933	-10.846E-6	-0.042314	0.0	
18.00000	11.33333	23.00000	-0.086634	22.933	-4.2097E-6	-0.024056	0.0	
19.00000	11.33333	23.00000	-0.063181	22.933	-1.8972E-6	-0.014916	0.0	
20.00000	11.33333	23.00000	-0.047269	22.933	0.0	-0.0098568	0.0	
21.00000	11.33333	23.00000	-0.036045	22.933	0.0	-0.0068339	0.0	
22.00000	11.33333	23.00000	-0.027888	22.933	0.0	-0.0049334	0.0	
23.00000	11.33333	23.00000	-0.021821	22.933	0.0	-0.0036715	0.0	
24.00000	11.33333	23.00000	-0.017225	22.933	0.0	-0.0028041	0.0	
25.00000	11.33333	23.00000	-0.013691	22.933	0.0	-0.0021888	0.0	
26.00000	11.33333	23.00000	-0.010342	22.933	0.0	-0.0017404	0.0	
27.00000	11.33333	23.00000	-0.0087815	22.933	0.0	-0.0014063	0.0	
28.00000	11.33333	23.00000	-0.0070704	22.933	0.0	-0.0011522	0.0	
29.00000	11.33333	23.00000	-0.0057058	22.933	0.0	-955.62E-6	0.0	
30.00000	11.33333	23.00000	-0.0046115	22.933	0.0	-801.23E-6	0.0	
0.00000	12.00000	23.00000	-0.018885	22.933	0.0	-0.0018457	0.0	
1.00000	12.00000	23.00000	-0.014882	22.933	0.0	-0.0023113	0.0	
2.00000	12.00000	23.00000	-0.018738	22.933	0.0	-0.0029370	0.0	
3.00000	12.00000	23.00000	-0.023754	22.933	0.0	-0.0037861	0.0	
4.00000	12.00000	23.00000	-0.030368	22.933	0.0	-0.0049369	0.0	
5.00000	12.00000	23.00000	-0.039223	22.933	0.0	-0.0064956	0.0	
6.00000	12.00000	23.00000	-0.051270	22.933	1.2714E-6	-0.0080502	0.0	
7.00000	12.00000	23.00000	-0.067797	22.933	8.4571E-6	-0.0076874	0.0	
8.00000	12.00000	23.00000	-0.089490	22.933	70.230E-6	0.010272	0.0	
9.00000	12.00000	23.00000	-0.10495	22.933	0.0014205	0.23416	-1.8405E-6	
10.00000	12.00000	23.00000	-0.30098	22.933	33.218	56.300	0.0011587	
11.00000	12.00000	23.00000	-2.1826	22.933	-55.735	-113.87	-0.0017989	
12.00000	12.00000	23.00000	-2.7847	22.933	-55.802	-118.31	-0.0017660	
13.00000	12.00000	23.00000	-1.7734	22.933	-27.903	-59.792	-877.89E-6	
14.00000	12.00000	23.00000	-0.55515	22.933	-0.0018784	-0.77378	6.2198E-6	
15.00000	12.00000	23.00000	-0.29966	22.933	-155.73E-6	-0.20357	1.6940E-6	
16.00000	12.00000	23.00000	-0.18515	22.933	-35.246E-6	-0.085218	0.0	
17.00000	12.00000	23.00000	-0.12369	22.933	-10.930E-6	-0.042619	0.0	
18.00000	12.00000	23.00000	-0.086968	22.933	-4.2360E-6	-0.024185	0.0	
19.00000	12.00000	23.00000	-0.063366	22.933	-1.9073E-6	-0.014977	0.0	
20.00000	12.00000	23.00000	-0.049776	22.933	0.0	-0.0096486	0.0	
21.00000	12.00000	23.00000	-0.036110	22.933	0.0	-0.0068568	0.0	
22.00000	12.00000	23.00000	-0.027929	22.933	0.0	-0.0049430	0.0	
23.00000	12.00000	23.00000	-0.021847	22.933	0.0	-0.0036772	0.0	
24.00000	12.00000	23.00000	-0.017242	22.933	0.0	-0.0028076	0.0	
25.00000	12.00000	23.00000	-0.013703	22.933	0.0	-0.0021909	0.0	
26.00000	12.00000	23.00000	-0.010950	22.933	0.0	-0.0017418	0.0	
27.00000	12.00000	23.00000	-0.0087872	22.933	0.0	-0.0014072	0.0	
28.00000	12.00000	23.00000	-0.0070744	22.933	0.0	-0.0011528	0.0	
29.00000	12.00000	23.00000	-0.0057087	22.933	0.0	-956.02E-6	0.0	
30.00000	12.00000	23.00000	-0.0046136	22.933	0.0	-801.50E-6	0.0	
0.00000	12.66667	23.00000	-0.011700	22.933	0.0	-0.0018100	0.0	
1.00000	12.66667	23.00000	-0.014617	22.933	0.0	-0.0022551	0.0	
2.00000	12.66667	23.00000	-0.018348	22.933	0.0	-0.0028437	0.0	
3.00000	12.66667	23.00000	-0.023162	22.933	0.0	-0.0036222	0.0	
4.00000	12.66667	23.00000	-0.029436	22.933	0.0	-0.0046295	0.0	
5.00000	12.66667	23.00000	-0.037690	22.933	0.0	-0.0058135	0.0	
6.00000	12.66667	23.00000	-0.048617	22.933	1.8717E-6	-0.0066438	0.0	
7.00000	12.66667	23.00000	-0.062954	22.933	10.937E-6	-0.0041102	0.0	
8.00000	12.66667	23.00000	-0.080374	22.933	84.634E-6	0.020880	0.0	
9.00000	12.66667	23.00000	-0.095924	22.933	0.0015975	0.27257	-2.1456E-6	
10.00000	12.66667	23.00000	0.33491	22.933	33.228	56.091	0.0011687	
11.00000	12.66667	23.00000	-2.5368	22.933	-55.891	-119.37	-0.0	

Name	X [m]	Location Y [m]	Z [Level] [MOD]	Displacement Z [mm]	Calc Level [MOD]	Stresses Vert [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
5.00000	13.33333	23.00000	-0.035634	22.933	0.0	-0.0050940	0.0	
6.00000	13.33333	23.00000	-0.045100	22.933	2.4209E-6	-0.0050719	0.0	
7.00000	13.33333	23.00000	-0.056474	22.933	13.214E-6	-132.07E-6	0.0	
8.00000	13.33333	23.00000	-0.067212	22.933	99.342E-6	0.033558	0.0	
9.00000	13.33333	23.00000	-0.079223	22.933	0.0019113	0.34676	-2.7345E-6	
10.00000	13.33333	23.00000	0.61313	22.933	42.455	79.553	0.0014289	
11.00000	13.33333	23.00000	-2.1644	22.933	-55.535	-112.45	-0.0018007	
12.00000	13.33333	23.00000	-1.2918	22.933	-0.094957	-6.3578	47.213E-6	
13.00000	13.33333	23.00000	-0.88555	22.933	-0.046429	-3.2822	24.500E-6	
14.00000	13.33333	23.00000	-0.516833	22.933	-983.30E-6	-0.51333	4.1391E-6	
15.00000	13.33333	23.00000	-0.25820	22.933	-113.79E-6	-0.16239	1.3190E-6	
16.00000	13.33333	23.00000	-0.16654	22.933	-26.955E-6	-0.071730	0.0	
17.00000	13.33333	23.00000	-0.11429	22.933	-8.9867E-6	-0.037684	0.0	
18.00000	13.33333	23.00000	-0.081779	22.933	-3.6596E-6	-0.022079	0.0	
19.00000	13.33333	23.00000	-0.060299	22.933	-1.7048E-6	-0.013967	0.0	
20.00000	13.33333	23.00000	-0.045463	22.933	0.0	-0.0093587	0.0	
21.00000	13.33333	23.00000	-0.034865	22.933	0.0	-0.0065589	0.0	
22.00000	13.33333	23.00000	-0.027091	22.933	0.0	-0.0047653	0.0	
23.00000	13.33333	23.00000	-0.021268	22.933	0.0	-0.0035661	0.0	
24.00000	13.33333	23.00000	-0.016833	22.933	0.0	-0.0027352	0.0	
25.00000	13.33333	23.00000	-0.013408	22.933	0.0	-0.0021423	0.0	
26.00000	13.33333	23.00000	-0.010734	22.933	0.0	-0.0017081	0.0	
27.00000	13.33333	23.00000	-0.0086273	22.933	0.0	-0.0013832	0.0	
28.00000	13.33333	23.00000	-0.0069547	22.933	0.0	-0.0011354	0.0	
29.00000	13.33333	23.00000	-0.0051823	22.933	0.0	-943.16E-6	0.0	
30.00000	13.33333	23.00000	-0.0045446	22.933	0.0	-791.83E-6	0.0	
0.00000	14.00000	23.00000	-0.011087	22.933	0.0	-0.0017036	0.0	
1.00000	14.00000	23.00000	-0.013754	22.933	0.0	-0.0020928	0.0	
2.00000	14.00000	23.00000	-0.017107	22.933	0.0	-0.0025861	0.0	
3.00000	14.00000	23.00000	-0.021229	22.933	0.0	-0.0031920	0.0	
4.00000	14.00000	23.00000	-0.026636	22.933	0.0	-0.0038702	0.0	
5.00000	14.00000	23.00000	-0.033225	22.933	0.0	-0.0043601	0.0	
6.00000	14.00000	23.00000	-0.041074	22.933	2.8253E-6	-0.0035461	0.0	
7.00000	14.00000	23.00000	-0.049151	22.933	14.880E-6	0.0036267	0.0	
8.00000	14.00000	23.00000	-0.057903	22.933	111.00E-6	-0.046194	0.0	
9.00000	14.00000	23.00000	-0.017562	22.933	0.0021052	0.41584	-3.2889E-6	
10.00000	14.00000	23.00000	0.74413	22.933	42.469	80.259	0.0014238	
11.00000	14.00000	23.00000	-1.8528	22.933	-55.515	-110.73	-0.0018138	
12.00000	14.00000	23.00000	-0.74701	22.933	-0.0073440	-1.7539	13.947E-6	
13.00000	14.00000	23.00000	-0.52086	22.933	-0.0017602	-0.75939	6.1091E-6	
14.00000	14.00000	23.00000	-0.34210	22.933	-338.85E-6	-0.29493	2.3892E-6	
15.00000	14.00000	23.00000	-0.22075	22.933	-70.100E-6	-0.12254	0.0	
16.00000	14.00000	23.00000	-0.14942	22.933	-20.153E-6	-0.060014	0.0	
17.00000	14.00000	23.00000	-0.10542	22.933	-7.3522E-6	-0.033250	0.0	
18.00000	14.00000	23.00000	-0.076775	22.933	-3.1547E-6	-0.021370	0.0	
19.00000	14.00000	23.00000	-0.057294	22.933	-1.5205E-6	-0.013003	0.0	
20.00000	14.00000	23.00000	-0.043569	22.933	0.0	-0.0088438	0.0	
21.00000	14.00000	23.00000	-0.033624	22.933	0.0	-0.0062651	0.0	
22.00000	14.00000	23.00000	-0.026252	22.933	0.0	-0.0045885	0.0	
23.00000	14.00000	23.00000	-0.020886	22.933	0.0	-0.0034894	0.0	
24.00000	14.00000	23.00000	-0.016420	22.933	0.0	-0.0026626	0.0	
25.00000	14.00000	23.00000	-0.013110	22.933	0.0	-0.0020932	0.0	
26.00000	14.00000	23.00000	-0.010516	22.933	0.0	-0.0016741	0.0	
27.00000	14.00000	23.00000	-0.0084659	22.933	0.0	-0.0013591	0.0	
28.00000	14.00000	23.00000	-0.0063237	22.933	0.0	-0.0011979	0.0	
29.00000	14.00000	23.00000	-0.0055267	22.933	0.0	-930.19E-6	0.0	
30.00000	14.00000	23.00000	-0.0044749	22.933	0.0	-782.06E-6	0.0	
0.00000	14.66667	23.00000	-0.010680	22.933	0.0	-0.0016371	0.0	
1.00000	14.66667	23.00000	-0.013191	22.933	0.0	-0.0019947	0.0	
2.00000	14.66667	23.00000	-0.016547	22.933	0.0	-0.0025159	0.0	
3.00000	14.66667	23.00000	-0.020188	22.933	0.0	-0.0029583	0.0	
4.00000	14.66667	23.00000	-0.024951	22.933	0.0	-0.0034852	0.0	
5.00000	14.66667	23.00000	-0.030654	22.933	0.0	-0.0039661	0.0	
6.00000	14.66667	23.00000	-0.036971	22.933	2.9697E-6	-0.0023195	0.0	
7.00000	14.66667	23.00000	-0.044137	22.933	15.160E-6	-0.0016131	0.0	
8.00000	14.66667	23.00000	-0.038284	22.933	112.02E-6	0.052834	0.0	
9.00000	14.66667	23.00000	0.016526	22.933	0.0021371	0.44984	-3.5647E-6	
10.00000	14.66667	23.00000	0.87282	22.933	42.471	80.680	0.0014205	
11.00000	14.66667	23.00000	-1.5123	22.933	-55.482	-108.50	-0.0018304	
12.00000	14.66667	23.00000	-0.48157	22.933	-0.0043240	-0.96788	7.6833E-6	
13.00000	14.66667	23.00000	-0.35653	22.933	-423.26E-6	-0.34073	2.7586E-6	
14.00000	14.66667	23.00000	-0.25860	22.933	-127.76E-6	-0.17184	1.3955E-6	
15.00000	14.66667	23.00000	-0.18262	22.933	-39.707E-6	-0.087832	0.0	
16.00000	14.66667	23.00000	-0.13037	22.933	-13.987E-6	-0.048046	0.0	
17.00000	14.66667	23.00000	-0.09448	22.933	-5.6862E-6	-0.026154	0.0	
18.00000	14.66667	23.00000	-0.070741	22.933	-2.6041E-6	-0.017853	0.0	
19.00000	14.66667	23.00000	-0.053591	22.933	-1.3102E-6	-0.011850	0.0	
20.00000	14.66667	23.00000	-0.041198	22.933	0.0	-0.0082133	0.0	
21.00000	14.66667	23.00000	-0.032051	22.933	0.0	-0.0058992	0.0	
22.00000	14.66667	23.00000	-0.025179	22.933	0.0	-0.0046555	0.0	
23.00000	14.66667	23.00000	-0.019937	22.933	0.0	-0.0033131	0.0	
24.00000	14.66667	23.00000	-0.015886	22.933	0.0	-0.0025693	0.0	
25.00000	14.66667	23.00000	-0.012724	22.933	0.0	-0.0020299	0.0	
26.00000	14.66667	23.00000	-0.010232	22.933	0.0	-0.0016300	0.0	
27.00000	14.66667	23.00000	-0.008449	22.933	0.0	-0.0013706	0.0	
28.00000	14.66667	23.00000	-0.0066753	22.933	0.0	-0.0010949	0.0	
29.00000	14.66667	23.00000	-0.0054068	22.933	0.0	-913.20E-6	0.0	
30.00000	14.66667	23.00000	-0.0043833	22.933	0.0	-769.26E-6	0.0	
0.00000	15.33333	23.00000	-0.010222	22.933	0.0	-0.0015647	0.0	
1.00000	15.33333	23.00000	-0.012668	22.933	0.0	-0.0018905	0.0	
2.00000	15.33333	23.00000	-0.015445	22.933	0.0	-0.0022837	0.0	
3.00000	15.33333	23.00000	-0.018965	22.933	0.0	-0.0027284	0.0	
4.00000	15.33333	23.00000	-0.023200	22.933	0.0	-0.0031351	0.0	
5.00000	15.33333	23.00000	-0.028097	22.933	0.0	-0.0031654	0.0	
6.00000	15.33333	23.00000	-0.033133	22.933	2.7888E-6	-0.0017659	0.0	
7.00000	15.33333	23.00000	-0.036410	22.933	13.517E-6	-0.0067275	0.0	
8.00000	15.33333	23.00000	-0.029928	22.933	94.638E-6	0.048937	0.0	
9.00000	15.33333	23.00000	0.026142	22.933	0.0017685	0.39113	-3.1039E-6	
10.00000	15.33333	23.00000	0.92306	22.933	42.451	80.230	0.0014232	
11.00000	15.33333	23.00000	-0.086912	22.933	27.523	39.048	0.0012865	
12.00000	15.33333	23.00000	-0.28930	22.933	-0.0017900	-0.41688	3.3128E-6	
13.00000	15.33333	23.00000	-0.24548	22.933	-160.10E-6	-0.17594	1.4273E-6	
14.00000	15.33333	23.00000	-0.19517	22.933	-55.630E-6	-0.10404	0.0	
15.00000	15.33333	23.00000	-0.14842	22.933	-22.122E-6	-0.061755	0.0	
16.00000	15.33333	23.00000	-0.11152	22.933	-9.2853E-6	-0.037398	0.0	
17.00000	15.33333	23.00000	-0.084160	22.933	-4.2158E-6	-0.023565	0.0	
18.00000	15.33333	23.00000	-0.064151	22.933	-2.0741E-6	-0.015499	0.0	
19.00000	15.33333	23.00000	-0.049434	22.933	-1.0959E-6	-0.010605	0.0	
20.00000	15.33333	23.00000	-0.038482	22.933	0.0	-0.0075118	0.0	
21.00000	15.33333	23.00000	-0.030224	22.933	0.0	-0.0054822	0.0	
22.00000	15.33333	23.00000	-0.023919	22.933	0.0	-0.0041077	0.0	
23.00000	15.33333	23.00000	-0.019049	22.933	0.0	-0.0031472	0.0	
24.00000	15.33333	23.00000	-0.015249	22.933	0.0	-0.0024590	0.0	
25.00000	15.33333	23.00000	-0.012260	22.933	0.0	-0.0019545	0.0	
26.00000	15.33333	23.00000	-0.009903	22.933	0.0	-0.0015783	0.0	
27.00000	15.33333	23.00000	-0.0079997	22.933	0.0	-0.0012896	0.0	
28.00000	15.33333	23.00000	-0.0064831	22.933	0.0	-0.0010672	0.0	
29.00000	15.33333	23.00000	-0.0052608					

Name	X [m]	Location Y [m]	Z[Level] [MOD]	Displacement Z [mm]	Calc Level [MOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
22.00000	16.00000	23.00000	-0.022519	22.933	0.0	-0.0038272	0.0	
23.00000	16.00000	23.00000	-0.018052	22.933	0.0	-0.0029640	0.0	
24.00000	16.00000	23.00000	-0.014529	22.933	0.0	-0.0023357	0.0	
25.00000	16.00000	23.00000	-0.011732	22.933	0.0	-0.0018693	0.0	
26.00000	16.00000	23.00000	-0.009494	22.933	0.0	-0.0015169	0.0	
27.00000	16.00000	23.00000	-0.0077060	22.933	0.0	-0.0012462	0.0	
28.00000	16.00000	23.00000	-0.0062611	22.933	0.0	-0.0010353	0.0	
29.00000	16.00000	23.00000	-0.0050916	22.933	0.0	-868.69E-6	0.0	
30.00000	16.00000	23.00000	-0.0041418	22.933	0.0	-735.54E-6	0.0	
0.00000	16.66667	23.00000	-0.020232	22.933	0.0	-0.0014111	0.0	
1.00000	16.66667	23.00000	-0.011198	22.933	0.0	-0.0016774	0.0	
2.00000	16.66667	23.00000	-0.013598	22.933	0.0	-0.0019863	0.0	
3.00000	16.66667	23.00000	-0.016451	22.933	0.0	-0.0023161	0.0	
4.00000	16.66667	23.00000	-0.019767	22.933	0.0	-0.0025869	0.0	
5.00000	16.66667	23.00000	-0.023442	22.933	0.0	-0.0028516	0.0	
6.00000	16.66667	23.00000	-0.027077	22.933	1.7403E-6	-0.0014566	0.0	
7.00000	16.66667	23.00000	-0.029546	22.933	6.7987E-6	0.0031211	0.0	
8.00000	16.66667	23.00000	-0.028001	22.933	31.746E-6	0.019790	0.0	
9.00000	16.66667	23.00000	-0.016973	22.933	196.39E-6	0.081202	0.0	
10.00000	16.66667	23.00000	-0.005130	22.933	991.72E-6	0.22555	-1.7912E-6	
11.00000	16.66667	23.00000	-0.055977	22.933	610.62E-6	0.12070	0.0	
12.00000	16.66667	23.00000	-0.11211	22.933	11.861E-6	-0.030600	0.0	
13.00000	16.66667	23.00000	-0.12330	22.933	-18.368E-6	-0.048766	0.0	
14.00000	16.66667	23.00000	-0.11330	22.933	-12.186E-6	-0.040933	0.0	
15.00000	16.66667	23.00000	-0.016404	22.933	-6.9891E-6	-0.030505	0.0	
16.00000	16.66667	23.00000	-0.078993	22.933	-3.866E-6	-0.021854	0.0	
17.00000	16.66667	23.00000	-0.063610	22.933	-2.1475E-6	-0.015551	0.0	
18.00000	16.66667	23.00000	-0.050887	22.933	-1.2203E-6	-0.011167	0.0	
19.00000	16.66667	23.00000	-0.040665	22.933	0.0	-0.0081492	0.0	
20.00000	16.66667	23.00000	-0.032549	22.933	0.0	-0.0062872	0.0	
21.00000	16.66667	23.00000	-0.026123	22.933	0.0	-0.0045867	0.0	
22.00000	16.66667	23.00000	-0.021029	22.933	0.0	-0.0035352	0.0	
23.00000	16.66667	23.00000	-0.016979	22.933	0.0	-0.0027700	0.0	
24.00000	16.66667	23.00000	-0.013745	22.933	0.0	-0.0022034	0.0	
25.00000	16.66667	23.00000	-0.011350	22.933	0.0	-0.0017626	0.0	
26.00000	16.66667	23.00000	-0.0090662	22.933	0.0	-0.0014510	0.0	
27.00000	16.66667	23.00000	-0.0073804	22.933	0.0	-0.0011983	0.0	
28.00000	16.66667	23.00000	-0.0060137	22.933	0.0	-999.83E-6	0.0	
29.00000	16.66667	23.00000	-0.0049024	22.933	0.0	-842.06E-6	0.0	
0.00000	17.33333	23.00000	-0.016961	22.933	-715.24E-6	-0.0026660	0.0	
0.00000	17.33333	23.00000	-0.0086650	22.933	0.0	-0.0013332	0.0	
1.00000	17.33333	23.00000	-0.010490	22.933	0.0	-0.0015733	0.0	
2.00000	17.33333	23.00000	-0.012663	22.933	0.0	-0.0018481	0.0	
3.00000	17.33333	23.00000	-0.015220	22.933	0.0	-0.0021388	0.0	
4.00000	17.33333	23.00000	-0.018160	22.933	0.0	-0.0025194	0.0	
5.00000	17.33333	23.00000	-0.021401	22.933	0.0	-0.0024029	0.0	
6.00000	17.33333	23.00000	-0.024682	22.933	1.1763E-6	-0.0017256	0.0	
7.00000	17.33333	23.00000	-0.027408	22.933	3.9751E-6	913.42E-6	0.0	
8.00000	17.33333	23.00000	-0.028594	22.933	14.136E-6	0.0087082	0.0	
9.00000	17.33333	23.00000	-0.029136	22.933	49.738E-6	0.021296	0.0	
10.00000	17.33333	23.00000	-0.033631	22.933	112.82E-6	0.046106	0.0	
11.00000	17.33333	23.00000	-0.057401	22.933	77.586E-6	0.021216	0.0	
12.00000	17.33333	23.00000	-0.082995	22.933	9.2952E-6	-0.016556	0.0	
13.00000	17.33333	23.00000	-0.092045	22.933	-6.0176E-6	-0.028373	0.0	
14.00000	17.33333	23.00000	-0.088955	22.933	-5.8790E-6	-0.026894	0.0	
15.00000	17.33333	23.00000	-0.077924	22.933	-3.9943E-6	-0.021782	0.0	
16.00000	17.33333	23.00000	-0.066059	22.933	-2.4826E-6	-0.016683	0.0	
17.00000	17.33333	23.00000	-0.054702	22.933	-1.5046E-6	-0.012509	0.0	
18.00000	17.33333	23.00000	-0.044752	22.933	0.0	-0.0093551	0.0	
19.00000	17.33333	23.00000	-0.036405	22.933	0.0	-0.0071846	0.0	
20.00000	17.33333	23.00000	-0.029556	22.933	0.0	-0.0053659	0.0	
21.00000	17.33333	23.00000	-0.023993	22.933	0.0	-0.0041421	0.0	
22.00000	17.33333	23.00000	-0.019494	22.933	0.0	-0.0032418	0.0	
23.00000	17.33333	23.00000	-0.015858	22.933	0.0	-0.0025715	0.0	
24.00000	17.33333	23.00000	-0.012919	22.933	0.0	-0.0020226	0.0	
25.00000	17.33333	23.00000	-0.010537	22.933	0.0	-0.0016798	0.0	
26.00000	17.33333	23.00000	-0.0086031	22.933	0.0	-0.0013810	0.0	
27.00000	17.33333	23.00000	-0.0070294	22.933	0.0	-0.0011470	0.0	
28.00000	17.33333	23.00000	-0.0057459	22.933	0.0	-961.61E-6	0.0	
29.00000	17.33333	23.00000	-0.0046966	22.933	0.0	-813.14E-6	0.0	
30.00000	17.33333	23.00000	-0.0038371	22.933	0.0	-693.10E-6	0.0	
0.00000	18.00000	23.00000	-0.0081206	22.933	0.0	-0.0012563	0.0	
1.00000	18.00000	23.00000	-0.0097822	22.933	0.0	-0.0014726	0.0	
2.00000	18.00000	23.00000	-0.011744	22.933	0.0	-0.0017183	0.0	
3.00000	18.00000	23.00000	-0.014031	22.933	0.0	-0.0020766	0.0	
4.00000	18.00000	23.00000	-0.016643	22.933	0.0	-0.0022091	0.0	
5.00000	18.00000	23.00000	-0.019526	22.933	0.0	-0.0022970	0.0	
6.00000	18.00000	23.00000	-0.022540	22.933	0.0	-0.0019791	0.0	
7.00000	18.00000	23.00000	-0.025441	22.933	2.1418E-6	-696.84E-6	0.0	
8.00000	18.00000	23.00000	-0.028076	22.933	5.9941E-6	0.0024662	0.0	
9.00000	18.00000	23.00000	-0.031287	22.933	14.537E-6	0.0076440	0.0	
10.00000	18.00000	23.00000	-0.038388	22.933	23.025E-6	0.0096803	0.0	
11.00000	18.00000	23.00000	-0.051762	22.933	16.259E-6	570.52E-6	0.0	
12.00000	18.00000	23.00000	-0.065138	22.933	3.0716E-6	-0.012231	0.0	
13.00000	18.00000	23.00000	-0.078162	22.933	-2.3778E-6	-0.018243	0.0	
14.00000	18.00000	23.00000	-0.069592	22.933	-2.9802E-6	-0.018311	0.0	
15.00000	18.00000	23.00000	-0.063389	22.933	-2.3321E-6	-0.015847	0.0	
16.00000	18.00000	23.00000	-0.055250	22.933	-1.6038E-6	-0.012823	0.0	
17.00000	18.00000	23.00000	-0.046879	22.933	-1.0516E-6	-0.010063	0.0	
18.00000	18.00000	23.00000	-0.039144	22.933	0.0	-0.0078264	0.0	
19.00000	18.00000	23.00000	-0.032386	22.933	0.0	-0.0060571	0.0	
20.00000	18.00000	23.00000	-0.026659	22.933	0.0	-0.0047247	0.0	
21.00000	18.00000	23.00000	-0.021889	22.933	0.0	-0.0037175	0.0	
22.00000	18.00000	23.00000	-0.017952	22.933	0.0	-0.0029548	0.0	
23.00000	18.00000	23.00000	-0.014718	22.933	0.0	-0.0023768	0.0	
24.00000	18.00000	23.00000	-0.012068	22.933	0.0	-0.0019268	0.0	
25.00000	18.00000	23.00000	-0.0098974	22.933	0.0	-0.0015802	0.0	
26.00000	18.00000	23.00000	-0.0081186	22.933	0.0	-0.0013085	0.0	
27.00000	18.00000	23.00000	-0.0066599	22.933	0.0	-0.0010933	0.0	
28.00000	18.00000	23.00000	-0.005422	22.933	0.0	-921.29E-6	0.0	
29.00000	18.00000	23.00000	-0.0044777	22.933	0.0	-782.48E-6	0.0	
30.00000	18.00000	23.00000	-0.0036673	22.933	0.0	-669.46E-6	0.0	
0.00000	18.66667	23.00000	-0.005781	22.933	0.0	-0.0011813	0.0	
1.00000	18.66667	23.00000	-0.0090849	22.933	0.0	-0.0013761	0.0	
2.00000	18.66667	23.00000	-0.010850	22.933	0.0	-0.0015929	0.0	
3.00000	18.66667	23.00000	-0.012892	22.933	0.0	-0.0018323	0.0	
4.00000	18.66667	23.00000	-0.015215	22.933	0.0	-0.0020549	0.0	
5.00000	18.66667	23.00000	-0.017789	22.933	0.0	-0.0021992	0.0	
6.00000	18.66667	23.00000	-0.020553	22.933	0.0	-0.0021362	0.0	
7.00000	18.66667	23.00000	-0.023447	22.933	1.0920E-6	-0.0018400	0.0	
8.00000	18.66667	23.00000	-0.026554	22.933	2.5284E-6	-607.41E-6	0.0	
9.00000	18.66667	23.00000	-0.030519	22.933	4.8047E-6	542.45E-6	0.0	
10.00000	18.66667	23.00000	-0.036587	22.933	6.2248E-6	-162.12E-6	0.0	
11.00000	18.66667	23.00000	-0.044915	22.933	4.2909E-6	-0.0043649	0.0	
12.00000	18.66667	23.00000	-0.053557	22.933	0.0	-0.0096786	0.0	
13.00000	18.66667	23.00000	-0.056539	22.933	-1.1869E-6	-0.012709	0.0	
14.00000	18.66667	23.00000	-0.055898	22.933	-1.6191E-6	-0.013035	0.0	
15.00000	18.66667	23.00000	-0.051967	22.93				

MGC-17-27

Drg. Ref.

 Made by
JGM

Date

Checked

 3A Mornington Crescent
BIA

Drained long term movements. Including basement loads

Name	X [m]	Location Y [m]	Z[Level] [mOD]	Displacement Z [mm]	Calc Level [mOD]	Stresses		Vert Strain [-]
						Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	
8.00000	19.33333	23.00000	-0.024447	22.933	1.0671E-6	-0.0019594	0.0	
9.00000	19.33333	23.00000	-0.028165	22.933	1.7150E-6	-0.0020145	0.0	
10.00000	19.33333	23.00000	-0.032938	22.933	1.9337E-6	-0.0020978	0.0	
11.00000	19.33333	23.00000	-0.038470	22.933	1.2262E-6	-0.0052281	0.0	
12.00000	19.33333	23.00000	-0.043301	22.933	0.0	-0.0077745	0.0	
13.00000	19.33333	23.00000	-0.045830	22.933	0.0	-0.0093647	0.0	
14.00000	19.33333	23.00000	-0.045539	22.933	0.0	-0.0096367	0.0	
15.00000	19.33333	23.00000	-0.042945	22.933	0.0	-0.0089610	0.0	
16.00000	19.33333	23.00000	-0.038939	22.933	0.0	-0.0078308	0.0	
17.00000	19.33333	23.00000	-0.033244	22.933	0.0	-0.0065958	0.0	
18.00000	19.33333	23.00000	-0.029663	22.933	0.0	-0.0054433	0.0	
19.00000	19.33333	23.00000	-0.025288	22.933	0.0	-0.0044483	0.0	
20.00000	19.33333	23.00000	-0.021356	22.933	0.0	-0.0036244	0.0	
21.00000	19.33333	23.00000	-0.017921	22.933	0.0	-0.0029571	0.0	
22.00000	19.33333	23.00000	-0.014972	22.933	0.0	-0.0024224	0.0	
23.00000	19.33333	23.00000	-0.012469	22.933	0.0	-0.0019955	0.0	
24.00000	19.33333	23.00000	-0.010361	22.933	0.0	-0.0016545	0.0	
25.00000	19.33333	23.00000	-0.0085953	22.933	0.0	-0.0013811	0.0	
26.00000	19.33333	23.00000	-0.0071200	22.933	0.0	-0.0011609	0.0	
27.00000	19.33333	23.00000	-0.0058901	22.933	0.0	-982.53E-6	0.0	
28.00000	19.33333	23.00000	-0.0048660	22.933	0.0	-837.07E-6	0.0	
29.00000	19.33333	23.00000	-0.0040138	22.933	0.0	-717.69E-6	0.0	
30.00000	19.33333	23.00000	-0.0033050	22.933	0.0	-619.07E-6	0.0	
0.00000	20.00000	23.00000	-0.0065234	22.933	0.0	-0.0010386	0.0	
1.00000	20.00000	23.00000	-0.012498	22.933	0.0	-0.0011966	0.0	
2.00000	20.00000	23.00000	-0.0091665	22.933	0.0	-0.0013750	0.0	
3.00000	20.00000	23.00000	-0.010786	22.933	0.0	-0.0015704	0.0	
4.00000	20.00000	23.00000	-0.012614	22.933	0.0	-0.0017741	0.0	
5.00000	20.00000	23.00000	-0.014649	22.933	0.0	-0.0019707	0.0	
6.00000	20.00000	23.00000	-0.016888	22.933	0.0	-0.0021411	0.0	
7.00000	20.00000	23.00000	-0.019349	22.933	0.0	-0.0022807	0.0	
8.00000	20.00000	23.00000	-0.022107	22.933	0.0	-0.0024465	0.0	
9.00000	20.00000	23.00000	-0.025298	22.933	0.0	-0.0028173	0.0	
10.00000	20.00000	23.00000	-0.028980	22.933	0.0	-0.0036404	0.0	
11.00000	20.00000	23.00000	-0.032823	22.933	0.0	-0.0045389	0.0	
12.00000	20.00000	23.00000	-0.036013	22.933	0.0	-0.0062956	0.0	
13.00000	20.00000	23.00000	-0.037700	22.933	0.0	-0.0071726	0.0	
14.00000	20.00000	23.00000	-0.037541	22.933	0.0	-0.0073544	0.0	
15.00000	20.00000	23.00000	-0.035759	22.933	0.0	-0.0069630	0.0	
16.00000	20.00000	23.00000	-0.032866	22.933	0.0	-0.0062402	0.0	
17.00000	20.00000	23.00000	-0.029394	22.933	0.0	-0.0053959	0.0	
18.00000	20.00000	23.00000	-0.025761	22.933	0.0	-0.0045643	0.0	
19.00000	20.00000	23.00000	-0.022246	22.933	0.0	-0.0038134	0.0	
20.00000	20.00000	23.00000	-0.019004	22.933	0.0	-0.0031676	0.0	
21.00000	20.00000	23.00000	-0.016109	22.933	0.0	-0.0026278	0.0	
22.00000	20.00000	23.00000	-0.013577	22.933	0.0	-0.0021836	0.0	
23.00000	20.00000	23.00000	-0.011395	22.933	0.0	-0.0018208	0.0	
24.00000	20.00000	23.00000	-0.0095320	22.933	0.0	-0.0015254	0.0	
25.00000	20.00000	23.00000	-0.0079530	22.933	0.0	-0.0012848	0.0	
26.00000	20.00000	23.00000	-0.0066211	22.933	0.0	-0.0010882	0.0	
27.00000	20.00000	23.00000	-0.0055012	22.933	0.0	-927.10E-6	0.0	
28.00000	20.00000	23.00000	-0.0045619	22.933	0.0	-794.36E-6	0.0	
29.00000	20.00000	23.00000	-0.0037753	22.933	0.0	-684.46E-6	0.0	
30.00000	20.00000	23.00000	-0.0031173	22.933	0.0	-592.96E-6	0.0	
NW-SE	0.00000	0.00000	-0.016973	22.933	0.0	-0.0028007	0.0	
12.85000	1.00000	23.00000	-0.021609	22.933	0.0	-0.0037033	0.0	
12.70000	2.00000	23.00000	-0.027784	22.933	0.0	-0.0050432	0.0	
12.55000	3.00000	23.00000	-0.036186	22.933	0.0	-0.0071248	0.0	
12.40000	4.00000	23.00000	-0.047942	22.933	-1.1984E-6	-0.010550	0.0	
12.25000	5.00000	23.00000	-0.065004	22.933	-2.6403E-6	-0.016634	0.0	
12.10000	6.00000	23.00000	-0.091050	22.933	-6.8476E-6	-0.028631	0.0	
11.95000	7.00000	23.00000	-0.13377	22.933	-22.762E-6	-0.056237	0.0	
11.80000	8.00000	23.00000	-0.21179	22.933	-114.53E-6	-0.13745	1.1156E-6	
11.65000	9.00000	23.00000	-0.38007	22.933	-0.0013161	-0.51084	4.1025E-6	
11.50000	10.00000	23.00000	-0.61041	22.933	-0.19706	-5.3771	34.177E-6	
11.35000	11.00000	23.00000	-0.62840	22.933	1.2135	6.6946	4.7829E-6	
11.20000	12.00000	23.00000	-2.4254	22.933	-55.786	-116.38	-0.0017809	
11.05000	13.00000	23.00000	-2.4193	22.933	-55.507	-115.11	-0.0017776	
10.90000	14.00000	23.00000	-1.8000	22.933	-55.675	-111.60	-0.0018145	
10.75000	15.00000	23.00000	-0.74487	22.933	-51.356	-78.177	-0.0018758	
10.60000	16.00000	23.00000	0.095010	22.933	0.063693	2.4957	-17.240E-6	
10.45000	17.00000	23.00000	-0.035545	22.933	316.15E-6	0.093171	0.0	
10.30000	18.00000	23.00000	-0.041842	22.933	22.925E-6	0.0081726	0.0	
10.15000	19.00000	23.00000	-0.035816	22.933	3.3773E-6	-0.0023526	0.0	
10.00000	20.00000	23.00000	-0.028980	22.933	0.0	-0.0036404	0.0	
SW-NE 2	0.00000	12.00000	-0.011885	22.933	0.0	-0.0018454	0.0	
1.00000	12.00000	23.00000	-0.014882	22.933	0.0	-0.0023113	0.0	
2.00000	12.00000	23.00000	-0.018738	22.933	0.0	-0.0029370	0.0	
3.00000	12.00000	23.00000	-0.023754	22.933	0.0	-0.0037861	0.0	
4.00000	12.00000	23.00000	-0.030368	22.933	0.0	-0.0049369	0.0	
5.00000	12.00000	23.00000	-0.039223	22.933	0.0	-0.0064390	0.0	
6.00000	12.00000	23.00000	-0.051270	22.933	1.2714E-6	-0.0080502	0.0	
7.00000	12.00000	23.00000	-0.067797	22.933	8.4571E-6	-0.0076874	0.0	
8.00000	12.00000	23.00000	-0.089490	22.933	70.230E-6	0.010272	0.0	
9.00000	12.00000	23.00000	-0.10495	22.933	0.0014205	0.23416	-1.8405E-6	
10.00000	12.00000	23.00000	0.36098	22.933	33.218	56.030	0.0011687	
11.00000	12.00000	23.00000	-2.1826	22.933	-55.735	-113.87	-0.0017989	
12.00000	12.00000	23.00000	-2.7847	22.933	-55.802	-118.31	-0.0017660	
13.00000	12.00000	23.00000	-1.7734	22.933	-27.903	-59.792	-877.89E-6	
14.00000	12.00000	23.00000	-0.55515	22.933	-0.0018784	-0.77378	6.2198E-6	
15.00000	12.00000	23.00000	-0.29966	22.933	-165.73E-6	-0.20867	1.6940E-6	
16.00000	12.00000	23.00000	-0.18515	22.933	-35.246E-6	-0.085218	0.0	
17.00000	12.00000	23.00000	-0.12369	22.933	-10.930E-6	-0.042619	0.0	
18.00000	12.00000	23.00000	-0.086968	22.933	-4.2360E-6	-0.024185	0.0	
19.00000	12.00000	23.00000	-0.063366	22.933	-1.9073E-6	-0.014977	0.0	
20.00000	12.00000	23.00000	-0.047376	22.933	0.0	-0.0098881	0.0	
21.00000	12.00000	23.00000	-0.036110	22.933	0.0	-0.0068568	0.0	
22.00000	12.00000	23.00000	-0.027929	22.933	0.0	-0.0049430	0.0	
23.00000	12.00000	23.00000	-0.021847	22.933	0.0	-0.0036772	0.0	
24.00000	12.00000	23.00000	-0.017242	22.933	0.0	-0.0028076	0.0	
25.00000	12.00000	23.00000	-0.013703	22.933	0.0	-0.0021909	0.0	
26.00000	12.00000	23.00000	-0.010950	22.933	0.0	-0.0017418	0.0	
27.00000	12.00000	23.00000	-0.0087872	22.933	0.0	-0.0014072	0.0	
28.00000	12.00000	23.00000	-0.0070744	22.933	0.0	-0.0011528	0.0	
29.00000	12.00000	23.00000	-0.0057087	22.933	0.0	-956.02E-6	0.0	
30.00000	12.00000	23.00000	-0.0046136	22.933	0.0	-801.50E-6	0.0	