

Laboratory Report



Site	Braemar Road Baptist Church, Wood Green
Client	Braemar Avenue Ltd
Date	28-Nov-22
Our Ref	12942
CGL Ref	12942

Chelmer Global Ltd

Unit 7 Hall Road Industrial Estate, Hall Road, Southminster, Essex CM0 7DA

Essex: 01245 400930 | info@siteinvestigations.co.uk | www.siteinvestigations.co.uk



Content Summary

This report contains all test results as indicated on the test instruction/summary.

CGL Reference : 12942

Client Reference : 12942

For the attention of : Braemar Avenue Ltd

This report comprises of the following : 1 Cover Page

1 Inside Cover/Contents Page

3 Pages of Results

1 Moisture/Shear Strength Chart

1 Plasticity Chart

1 Limitations of Report Page

Notes :

General

Please refer to report summary notes for details pertaining to methods undertaken and their subsequent accreditations

Samples were supplied by **Chelmer Global / Customer**

All tests performed in-house unless otherwise stated

Deviant Samples

Samples were received in suitable containers Yes

A date and time of sampling was provided Yes

Arrived damaged and/or denatured No

Laboratory Testing Results

BS 1377 : 1990



Job Number : 12942
 Client : Braemar Avenue Ltd
 Client Reference : 12942
 Site Name : Braemar Road Baptist Church, Wood Green

Date Received : 21/11/2022
 Date Testing Started : 21/11/2022
 Date Testing Completed : 28/11/2022
 Laboratory Used : Chelmer Geotechnical, CM3 8AB

Sample Ref			Sample Type	*Moisture Content (%) [1]	*Soil Fraction > 0.425mm (%) [2]	*Liquid Limit (%) [3]	*Plastic Limit (%) [4]	*Plasticity Index (%) [5]	*Liquidity Index (%) [5]	*Modified Plasticity Index (%) [6]	*Soil Class [7]	Filter Paper Contact Time (h) [8]	*Soil Sample Suction (kPa)	Insitu Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	*pH Value [11]	*Sulphate Content (g/l)		
BH/TP/WS	Depth (m)	UID															SO ₃ [12]	SO ₄ [13]	Class [14]
TP2	0.8		D	39	<5	73	31	42	0.19	39	CV			73					

Notes :- *UKAS Accredited Tests			<table><tr><th colspan="2">Key</th></tr><tr><td>D</td><td>- Disturbed sample</td></tr><tr><td>B</td><td>- Bulk sample</td></tr><tr><td>U</td><td>- U100 (undisturbed sample)</td></tr><tr><td>W</td><td>- Water sample</td></tr><tr><td>ENP</td><td>- Essentially Non-Plastic</td></tr><tr><td>UIS</td><td>- Underside Foundation</td></tr></table>			Key		D	- Disturbed sample	B	- Bulk sample	U	- U100 (undisturbed sample)	W	- Water sample	ENP	- Essentially Non-Plastic	UIS	- Underside Foundation
Key																			
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[1] BS 1377 : Part 2 : 1990, Test No 3.2	[7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils	[12] BS 1377 : Part 3 : 1990, Test No 5.6																	
[2] Estimated if <5%, otherwise measured	[8] In-house method S9a adapted from BRE IP 4/93	[13] SO ₄ = 1.2 x SO ₃																	
[3] BS 1377 : Part 2 : 1990, Test No 4.4	[9] Values of shear strength were determined in situ by Chelmer Global using a Pilcon hand vane or Geonor vane (GV).	[14] BRE Special Digest One (Concrete in Aggressive Ground) 2005																	
[4] BS 1377 : Part 2 : 1990, Test No 5.3		Note that if the SO ₄ content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise																	
[5] BS 1377 : Part 2 : 1990, Test No 5.4	[10] BS 1377 : Part 3 : 1990, Test No 4																		
[6] BRE Digest 240 : 1993	[11] BS 1377 : Part 2 : 1990, Test No 9																		
Comments :-																			
Technician :- KL																			
Checked & Authorised By:- 																			
Martin Edwards- Chelmer Global Company Director																			
Date Checked :- 06/12/2022																			

Laboratory Testing Results

BS 1377 : 1990



Job Number : 12942
 Client : Braemar Avenue Ltd
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 Site Name : Braemar Road Baptist Church, Wood Green

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BH/TP/WS	Depth (m)	UID															SO ₃ [12]	SO ₄ [13]	Class [14]
TP4	0.8		D	36	<5	73	29	44	0.15	42	CV			80					

Notes :- *UKAS Accredited Tests			<table><tr><th colspan="2">Key</th></tr><tr><td>D</td><td>Disturbed sample</td></tr><tr><td>B</td><td>Bulk sample</td></tr><tr><td>U</td><td>U100 (undisturbed sample)</td></tr><tr><td>W</td><td>Water sample</td></tr><tr><td>ENP</td><td>Essentially Non-Plastic</td></tr><tr><td>UIS</td><td>Underside Foundation</td></tr></table>		Key		D	Disturbed sample	B	Bulk sample	U	U100 (undisturbed sample)	W	Water sample	ENP	Essentially Non-Plastic	UIS	Underside Foundation
Key																		
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[2] Estimated if <5%, otherwise measured	[8] In-house method S9a adapted from BRE IP 4/93	[13] SO ₄ = 1.2 x SO ₃																
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[6] BRE Digest 240 : 1993	[11] BS 1377 : Part 2 : 1990, Test No 9																	
Comments :-																		
Technician :- KL			Checked & Authorised By:-  Martin Edwards- Chelmer Global Company Director															
			Date Checked :- 06/12/2022															

BS 1377 : 1990



Date Received : 21/11/2022
Date Testing Started : 21/11/2022
Date Testing Completed : 28/11/2022
Laboratory Used : Chelmer Geotechnical, CM3 8AB

[illegible]

Notes :- *UKAS Accredited Tests

- [1] BS 1377 : Part 2 : 1990, Test No 3.2
- [2] Estimated if <5%, otherwise measured
- [3] BS 1377 : Part 2 : 1990, Test No 4.4
- [4] BS 1377 : Part 2 : 1990, Test No 5.3
- [5] BS 1377 : Part 2 : 1990, Test No 5.4
- [6] BRE Digest 240 : 1993

[7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils

[8] In-house method S9a adapted from BRE IP 4/93

[9] Values of shear strength were determined in situ by **Chelmer Global** using a Pilcon hand vane or Geonor vane (GV).

[10] BS 1377 : Part 3 : 1990, Test No 4

[11] BS 1377 : Part 2 : 1990, Test No 9

[12] BS 1377 : Part 3 : 1990, Test No 5.6

$$[13] \text{SO}_4 = 1.2 \times \text{SO}_3$$

[14] BRE Special Digest One (Concrete in Aggressive Ground) 2005

Note that if the SO_4 content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise

	Key
	D - Disturbed sample
	B - Bulk sample
	U - U100 (undisturbed sample)
	W - Water sample
	ENP - Essentially Non-Plastic
	U/S - Underside Foundation

Comments :-

Technician :- KL

Checked & Authorised By:-

Martin Edwards- Chelmer Global Company Director

Date Checked :- 06/12/2022

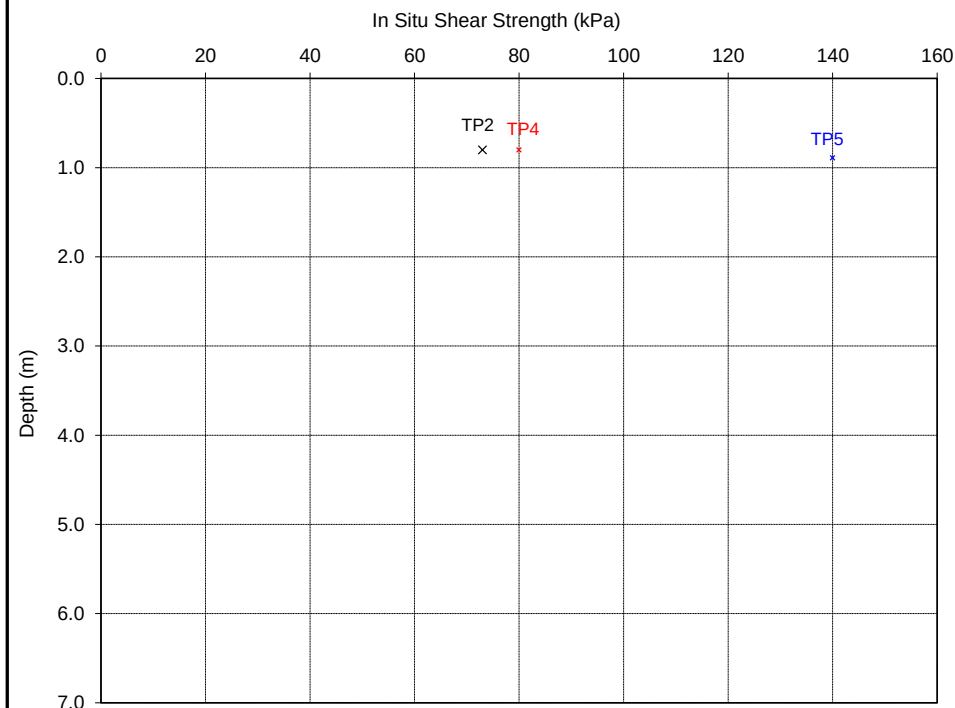
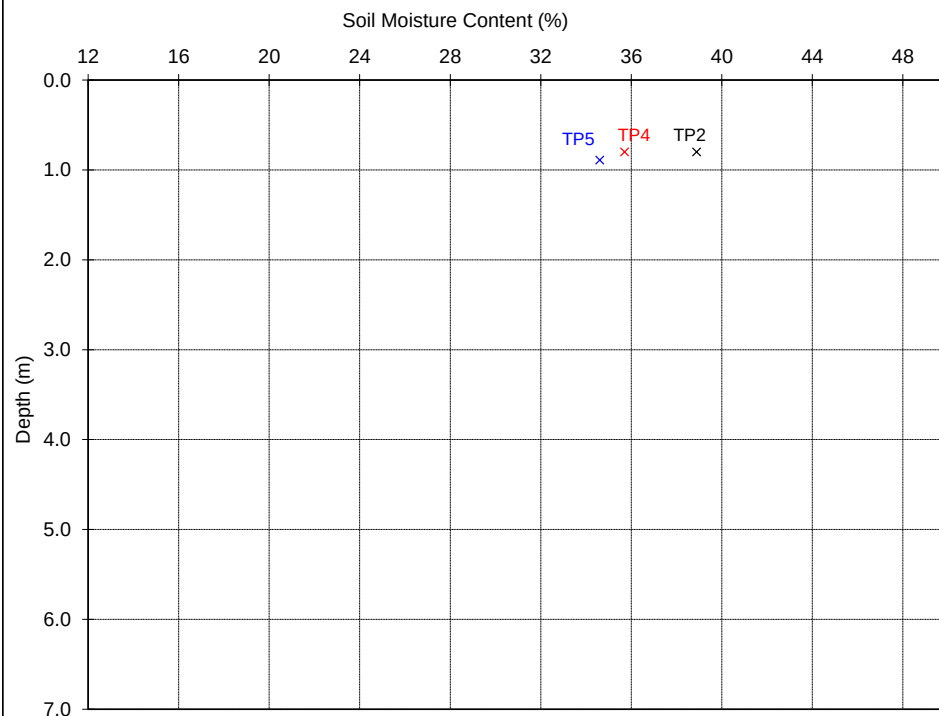
Laboratory Testing Results

Moisture Content/Shear Strength Profile



Job Number : 12942
 Client : Braemar Avenue Ltd
 Client Reference : 12942
 Site Name : Braemar Road Baptist Church, Wood Green

Date Received : 21/11/2022
 Date Testing Started : 21/11/2022
 Date Testing Completed : 28/11/2022
 Laboratory : Chelmer Geotechnical Laboratories, CM3 8AB



Notes :-

1. If the Soil Fraction > 0.425mm exceeds 5% the Equivalent Moisture Content of the remainder (calculated in accordance with BS 1377: Part 2 : 1990, cl.3.2.4 note 1) is also plotted and the alternative profile additionally shown as an appropriately coloured broken line.
2. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly over consolidated clays) at shallow depths.

Unless otherwise stated, values of Shear Strength were determined in situ by Chelmer Global Ltd using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 140 kPa. (Not UKAS accredited)

Comments :-

Checked & Authorised By:-  Martin Edwards- Chelmer Global Company Director

Date: 06/12/2022

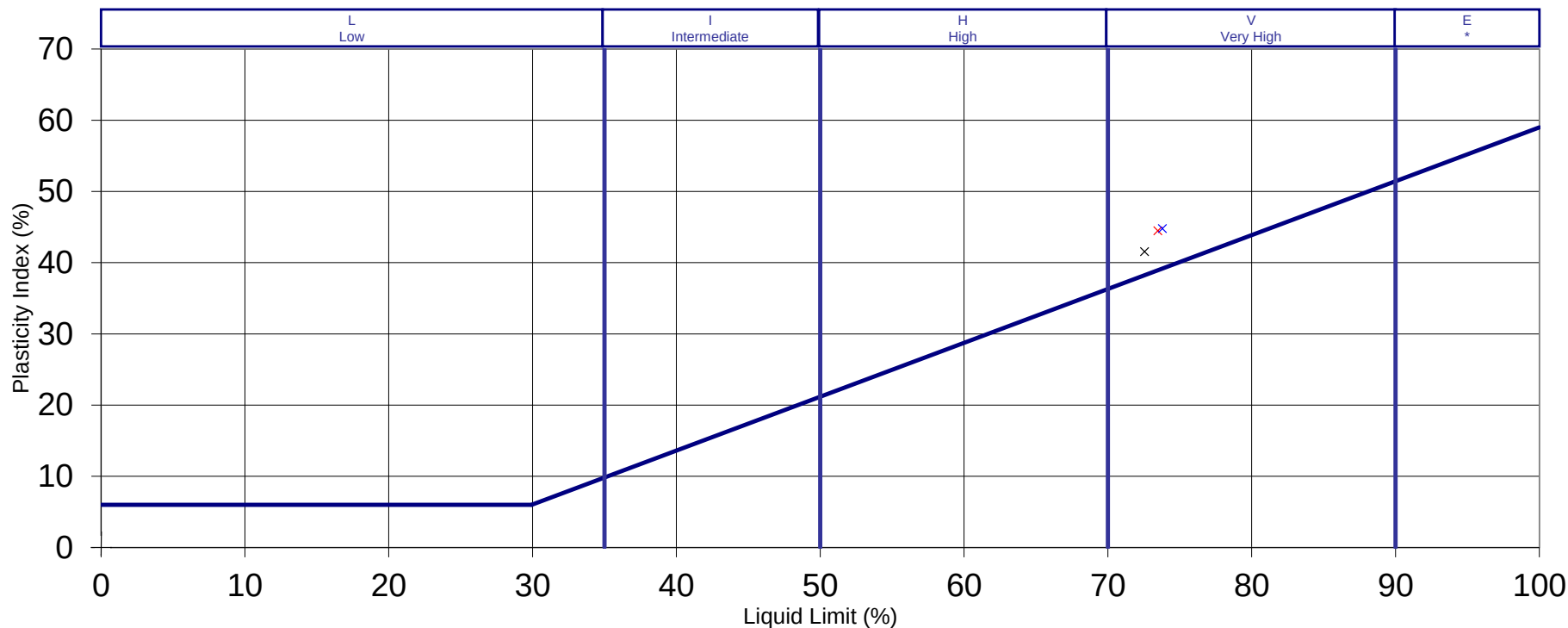
Laboratory Testing Results

Plasticity Chart for the classification of fine soils and the finer part of coarse soils
In Compliance with BS5930 : 1999



Job Number : 12942
Client : Braemar Avenue Ltd
Client Reference : 12942
Site Name : Braemar Road Baptist Church, Wood Green

Date Received : 21/11/2022
Date Testing Started : 21/11/2022
Date Testing Completed : 28/11/2022
Laboratory : Chelmer Geotechnical Laboratories, CM3 8AB



Notes :-

SILT (M-SOIL), M, plots below A-Line
CLAY, C, plots above A-Line } M and C may be combined as FINE SOIL, F.

Key :-

TP2
TP4
TP5

Comments :-

Checked & Authorised By:-

Martin Edwards- Chelmer Global Company Director

Date: 06/12/2022



This report is personal to the client, confidential and non assignable. It is issued with no admission of liability to any third party.

This report shall not be reproduced, except in full, without the written approval of Chelmer Global Ltd.

Where our involvement consists exclusively of testing samples, the results and comments (if provided) relate only to the samples tested.

Any samples that are deemed to be subject to deviation will be recorded as such within the test summary.

Laboratory Report



Site Braemar Road Baptist Church, London, N22 7BU

Client Braemar Avenue Ltd

Date 24-Nov-22

Our Ref 12942

CGL Ref 12942

Chelmer Global Ltd

Unit 7 Hall Road Industrial Estate, Hall Road, Southminster, Essex CM0 7DA

Essex: 01245 400930 | info@siteinvestigations.co.uk | www.siteinvestigations.co.uk



Content Summary

This report contains all test results as indicated on the test instruction/summary.

CGL Reference : 12942

Client Reference : 12942

For the attention of : Braemar Avenue Ltd

This report comprises of the following : 1 Cover Page

1 Inside Cover/Contents Page

3 Pages of Results

1 Moisture/Shear Strength Chart

1 Plasticity Chart

1 Limitations of Report Page

Notes :

General

Please refer to report summary notes for details pertaining to methods undertaken and their subsequent accreditations

Samples were supplied by **Chelmer Global Ltd**

All tests performed in-house unless otherwise stated

Deviant Samples

Samples were received in suitable containers Yes

A date and time of sampling was provided Yes

Arrived damaged and/or denatured No

Laboratory Testing Results

BS 1377 : 1990



Job Number : 12942
 Client : Braemar Avenue Ltd
 Client Reference : 12942
 Site Name : Braemar Road Baptist Church, London, N22 7BU

Date Received : 10/11/2022
 Date Testing Started : 10/11/2022
 Date Testing Completed : 24/11/2022
 Laboratory Used : Chelmer Geotechnical, CM3 8AB

Sample Ref			Sample Type	*Moisture Content (%) [1]	*Soil Fraction > 0.425mm (%) [2]	*Liquid Limit (%) [3]	*Plastic Limit (%) [4]	*Plasticity Index (%) [5]	*Liquidity Index (%) [5]	*Modified Plasticity Index (%) [6]	*Soil Class [7]	Filter Paper Contact Time (h) [8]	*Soil Sample Suction (kPa)	Insitu Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	*pH Value [11]	*Sulphate Content (g/l)		
BH/TPWS	Depth (m)	UID															SO ₃ [12]	SO ₄ [13]	Class [14]
BH1	1.0		D	33	<5	69	31	38	0.05	36	CH								
BH1	1.5		D	35	<5	72	29	43	0.14	41	CV								
BH1	2.0		D	35	<5	71	31	40	0.09	38	CV								
BH1	2.5		D	31	<5														
BH1	3.0		D	31	<5	71	28	43	0.07	41	CV								
BH1	3.5		D	32	<5														
BH1	4.0		D	31	<5	73	30	43	0.03	40	CV								
BH1	5.0		D	30	<5														
BH1	6.0		D	31	<5	72	32	40	-0.02	38	CV								
BH1	8.0		D	31	<5	73	29	44	0.05	42	CV								
BH1	10.0		D	30	<5														
BH1	12.0		D	30	<5	74	29	45	0.01	43	CV								
BH1	15.0		D	28	<5	73	28	45	-0.01	43	CV								

Notes :-										
[1] BS 1377 : Part 2 : 1990, Test No 3.2	[7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils	[12] BS 1377 : Part 3 : 1990, Test No 5.6	<table><tr><th>Key</th></tr><tr><td>D - Disturbed sample</td></tr><tr><td>B - Bulk sample</td></tr><tr><td>U - U100 (undisturbed sample)</td></tr><tr><td>W - Water sample</td></tr><tr><td>ENP - Essentially Non-Plastic</td></tr><tr><td>UIS - Underside Foundation</td></tr></table>	Key	D - Disturbed sample	B - Bulk sample	U - U100 (undisturbed sample)	W - Water sample	ENP - Essentially Non-Plastic	UIS - Underside Foundation
Key										
D - Disturbed sample										
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UIS - Underside Foundation										
[2] Estimated if <5%, otherwise measured	[8] In-house method S9a adapted from BRE IP 4/93	[13] SO ₄ = 1.2 x SO ₃								
[3] BS 1377 : Part 2 : 1990, Test No 4.4	[9] Values of shear strength were determined in situ by Chelmer Global using a Pilcon hand vane or Geonor vane (GV).	[14] BRE Special Digest One (Concrete in Aggressive Ground) 2005								
[4] BS 1377 : Part 2 : 1990, Test No 5.3		Note that if the SO ₄ content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise								
[5] BS 1377 : Part 2 : 1990, Test No 5.4	[10] BS 1377 : Part 3 : 1990, Test No 4									
[6] BRE Digest 240 : 1993	[11] BS 1377 : Part 2 : 1990, Test No 9									

Comments :-																			
Technician :- MEB				Checked & Authorised By:- 				Martin Edwards- Chelmer Global Company Director				Date Checked :-				01/12/2022			

Laboratory Testing Results

BS 1377 : 1990



Job Number : 12942
Client : Braemar Avenue Ltd
Client Reference : 12942
Site Name : Braemar Road Baptist Church, London, N22 7BU

Date Received : 10/11/2022
Date Testing Started : 10/11/2022
Date Testing Completed : 24/11/2022
Laboratory Used : Chelmer Geotechnical, CM3 8AB

Sample Ref			Sample Type	*Moisture Content (%) [1]	*Soil Fraction > 0.425mm (%) [2]	*Liquid Limit (%) [3]	*Plastic Limit (%) [4]	*Plasticity Index (%) [5]	*Liquidity Index (%) [5]	*Modified Plasticity Index (%) [6]	*Soil Class [7]	Filter Paper Contact Time (h) [8]	*Soil Sample Suction (kPa)	Insitu Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	*pH Value [11]	*Sulphate Content (g/l)		
BH/TP/WS	Depth (m)	UID															SO ₃ [12]	SO ₄ [13]	Class [14]
BH2	0.5		D	32	<5														
BH2	1.0		D	32	<5	67	28	39	0.09	37	CH			101					
BH2	1.5		D	33	<5									108					
BH2	2.0		D	27	<5	71	29	42	-0.04	40	CV			112					
BH2	2.5		D	27	<5									123					
BH2	3.0		D	29	<5	72	30	42	-0.02	40	CV			125					

Notes :-

- [1] BS 1377 : Part 2 : 1990, Test No 3.2
[2] Estimated if <5%, otherwise measured
[3] BS 1377 : Part 2 : 1990, Test No 4.4
[4] BS 1377 : Part 2 : 1990, Test No 5.3
[5] BS 1377 : Part 2 : 1990, Test No 5.4
[6] BRE Digest 240 : 1993

- [7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils
[8] In-house method S9a adapted from BRE IP 4/93
[9] Values of shear strength were determined in situ by **Chelmer Global** using a Pilcon hand vane or Geonor vane (GV).
[10] BS 1377 : Part 3 : 1990, Test No 4
[11] BS 1377 : Part 2 : 1990, Test No 9

- [12] BS 1377 : Part 3 : 1990, Test No 5.6
[13] $SO_4 = 1.2 \times SO_3$
[14] BRE Special Digest One (Concrete in Aggressive Ground) 2005

Note that if the SO_4 content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise

Key

- D** - Disturbed sample
B - Bulk sample
U - U100 (undisturbed sample)
W - Water sample
ENP - Essentially Non-Plastic
UIS - Underside Foundation

Comments :-

Technician :- MEB

Checked & Authorised By:-

Martin Edwards- **Chelmer Global Company Director**

Date Checked :- 01/12/2022

Laboratory Testing Results

BS 1377 : 1990



Job Number : 12942 Client : Braemar Avenue Ltd Client Reference : 12942 Site Name : Braemar Road Baptist Church, London, N22 7BU	Date Received : 10/11/2022 Date Testing Started : 10/11/2022 Date Testing Completed : 24/11/2022 Laboratory Used : Chelmer Geotechnical, CM3 8AB
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Sample Ref			Sample Type	*Moisture Content (%) [1]	*Soil Fraction > 0.425mm (%) [2]	*Liquid Limit (%) [3]	*Plastic Limit (%) [4]	*Plasticity Index (%) [5]	*Liquidity Index (%) [5]	*Modified Plasticity Index (%) [6]	*Soil Class [7]	Filter Paper Contact Time (h) [8]	*Soil Sample Suction (kPa)	Insitu Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	*pH Value [11]	*Sulphate Content (g/l)		
BH/TP/WS	Depth (m)	UID															SO ₃ [12]	SO ₄ [13]	Class [14]
BH3	1.0		D	34	<5	69	30	39	0.10	37	CH			105					
BH3	3.0		D	31	<5	72	31	41	-0.01	39	CV			131					

Notes :-			Key D - Disturbed sample B - Bulk sample U - U100 (undisturbed sample) W - Water sample ENP - Essentially Non-Plastic UIS - Underside Foundation
[1] BS 1377 : Part 2 : 1990, Test No 3.2	[7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils	[12] BS 1377 : Part 3 : 1990, Test No 5.6	
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[6] BRE Digest 240 : 1993	[11] BS 1377 : Part 2 : 1990, Test No 9		
Comments :-			
Technician :- MEB			
Checked & Authorised By:-  Martin Edwards- Chelmer Global Company Director			
Date Checked :- 01/12/2022			

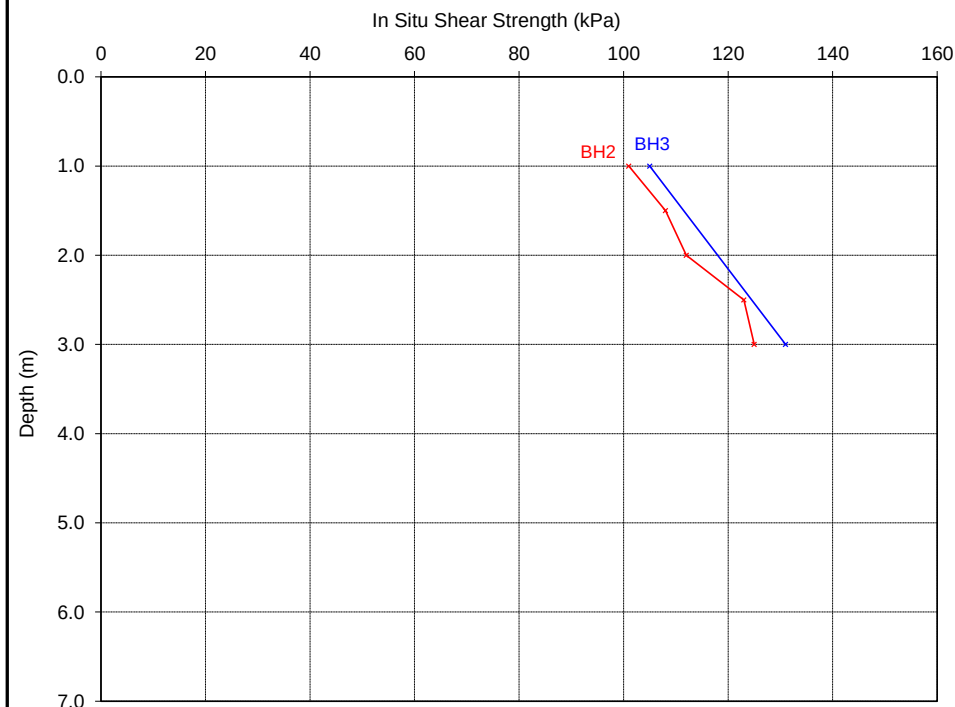
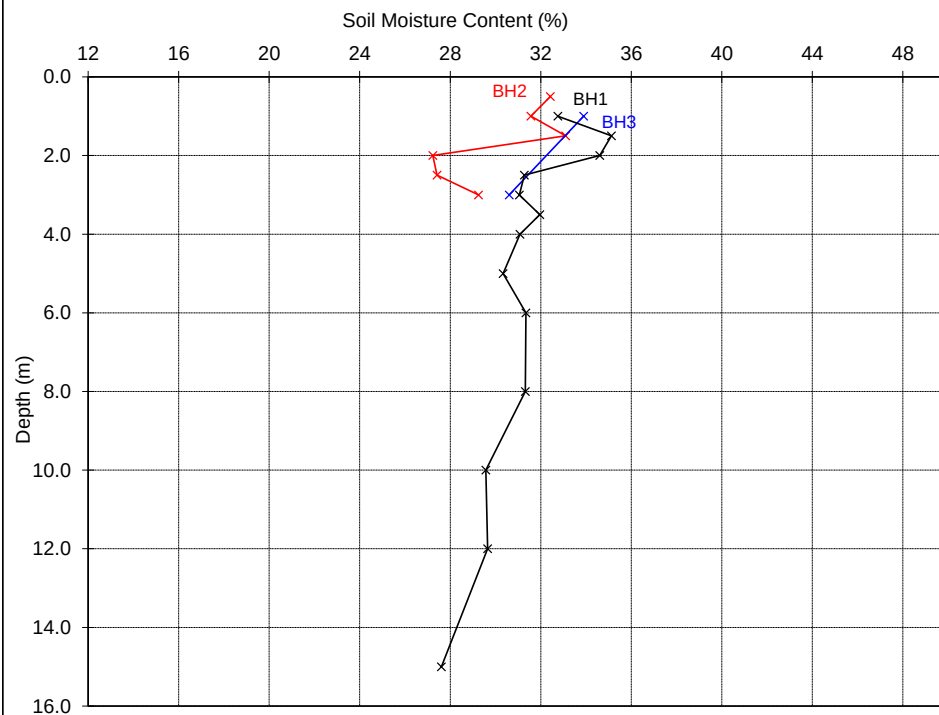
Laboratory Testing Results

Moisture Content/Shear Strength Profile



Job Number : 12942
 Client : Braemar Avenue Ltd
 Client Reference : 12942
 Site Name : Braemar Road Baptist Church, London, N22 7BU

Date Received : 10/11/2022
 Date Testing Started : 10/11/2022
 Date Testing Completed : 24/11/2022
 Laboratory : Chelmer Geotechnical Laboratories, CM3 8AB



Notes :-

1. If the Soil Fraction > 0.425mm exceeds 5% the Equivalent Moisture Content of the remainder (calculated in accordance with BS 1377: Part 2 : 1990, cl.3.2.4 note 1) is also plotted and the alternative profile additionally shown as an appropriately coloured broken line.
2. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly over consolidated clays) at shallow depths.

Unless otherwise stated, values of Shear Strength were determined in situ by Chelmer Global Ltd using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 140 kPa. (Not UKAS accredited)

Comments :-

Checked & Authorised By:-  Martin Edwards- Chelmer Global Company Director

Date: 01/12/2022

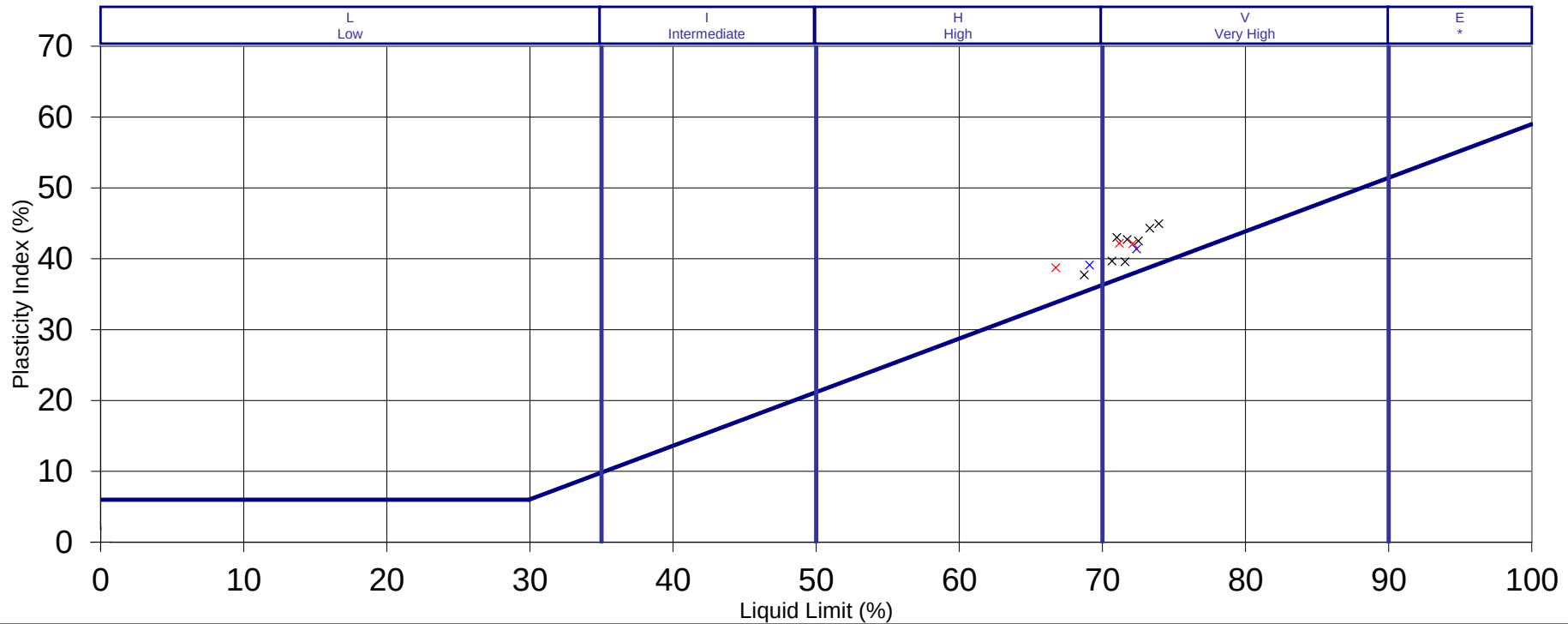
Laboratory Testing Results

Plasticity Chart for the classification of fine soils and the finer part of coarse soils
In Compliance with BS5930 : 1999



Job Number : 12942
Client : Braemar Avenue Ltd
Client Reference : 12942
Site Name : Braemar Road Baptist Church, London, N22 7BU

Date Received : 10/11/2022
Date Testing Started : 10/11/2022
Date Testing Completed : 24/11/2022
Laboratory : Chelmer Geotechnical Laboratories, CM3 8AB



Notes :-

SILT (M-SOIL), M, plots below A-Line
CLAY, C, plots above A-Line } M and C may be combined as FINE SOIL, F.

Key :- BH1

BH2

BH3

Comments :-

Checked & Authorised By:-

Martin Edwards- Chelmer Global Company Director

Date: 01/12/2022



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Where our involvement consists exclusively of testing samples, the results and comments (if provided) relate only to the samples tested.

Any samples that are deemed to be subject to deviation will be recorded as such within the test summary.

Martin Edwards
Chelmer Global Ltd
Unit 7 and 8 Hall Road Industrial E
Hall Road
Southminster
Essex
CM0 7DA

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

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

e: medwards@chelmerglobal.co.uk

Analytical Report Number : 22-96113

Project / Site name:	Braemer Avenue Baptist Church London N22	Samples received on:	11/11/2022
Your job number:	12942	Samples instructed on/ Analysis started on:	11/11/2022
Your order number:		Analysis completed by:	18/11/2022
Report Issue Number:	1	Report issued on:	18/11/2022
Samples Analysed:	2 soil samples		

Signed:


Dominika Warjan
Junior Reporting Specialist
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

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-96113

Project / Site name: Braemer Avenue Baptist Church London N22

Lab Sample Number				2496604	2496605
Sample Reference				BH1	BH1
Sample Number				None Supplied	None Supplied
Depth (m)				1.00	12.00
Date Sampled				09/11/2022	09/11/2022
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	24	20
Total mass of sample received	kg	0.001	NONE	0.8	0.8

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	8.2
Total Sulphate as SO ₄	%	0.005	MCERTS	0.04	0.245
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.052	0.72
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	52.3	721
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	4.3	76
Total Sulphur	%	0.005	MCERTS	0.027	0.538
Ammoniacal Nitrogen as NH ₄	mg/kg	0.5	MCERTS	< 0.5	8.5
Ammonium as NH ₄ (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	0.85
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	24	190
Magnesium (leachate equivalent)	mg/l	2.5	NONE	12	94

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 22-96113

Project / Site name: Braemer Avenue Baptist Church London N22

* 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 *
2496604	BH1	None Supplied	1	Light brown clay.
2496605	BH1	None Supplied	12	Brown clay.

Analytical Report Number : 22-96113

Project / Site name: Braemer Avenue Baptist Church London N22

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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.	L038-PL	D	MCERTS
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	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.	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
Ammonium as NH4 in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' 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 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by

the client. The instructed on date indicates the date on which this information was provided to the laboratory.

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Analytical Report Number : 22-98464

Project / Site name:	Braemar Avenue Baptist Churh London N22	Samples received on:	23/11/2022
Your job number:	12942	Samples instructed on/ Analysis started on:	23/11/2022
Your order number:		Analysis completed by:	12/12/2022
Report Issue Number:	1	Report issued on:	12/12/2022
Samples Analysed:	4 soil samples		


Signed:

Anna Goc
Junior Reporting Specialist
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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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-98464

Project / Site name: Braemar Avenue Baptist Church London N22

Lab Sample Number				2509263	2509264	2509265	2509266
Sample Reference				BH1	TP2	TP4	TP4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.50	0.25	0.50
Date Sampled				19/11/2022	19/11/2022	19/11/2022	19/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	25	27	18	21
Total mass of sample received	kg	0.001	NONE	1	1	1	1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MLO	MLO	N/A	MLO

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	8.3	-	8.2
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Organic Matter (automated)	%	0.1	MCERTS	1	1	-	2.4

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.12	0.99	-	3.8
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	1.5	-	3.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	1.5*	-	3.8
Phenanthrene	mg/kg	0.05	MCERTS	0.45	14	-	48
Anthracene	mg/kg	0.05	MCERTS	0.11	4.7	-	17
Fluoranthene	mg/kg	0.05	MCERTS	0.96	17*	-	48
Pyrene	mg/kg	0.05	NONE	0.85*	15*	-	41*
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.51	7.5*	-	23
Chrysene	mg/kg	0.05	MCERTS	0.43	6*	-	15
Benzo(b)fluoranthene	mg/kg	0.05	NONE	0.53*	7.4*	-	18*
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.25	2.2*	-	10
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.42	6.7	-	18
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.25	3.1	-	8
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.06	0.71	-	1.6
Benzo(ghi)perylene	mg/kg	0.05	NONE	0.3*	3.4*	-	8.5*

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	5.24	90.9	-	267
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	16	-	24
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	58	50	-	38
Copper (aqua regia extractable)	mg/kg	1	MCERTS	34	28	-	75
Lead (aqua regia extractable)	mg/kg	1	MCERTS	69	53	-	290
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	56	40	-	37
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	180	88	-	480

Analytical Report Number: 22-98464

Project / Site name: Braemar Avenue Baptist Churh London N22

Lab Sample Number				2509263	2509264	2509265	2509266
Sample Reference				BH1	TP2	TP4	TP4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.50	0.25	0.50
Date Sampled				19/11/2022	19/11/2022	19/11/2022	19/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status	

Monoaromatics & Oxygenates

Benzene	µg/kg	5	MCERTS	< 1.0	< 1.0	-	< 1.0
Toluene	µg/kg	5	MCERTS	< 1.0	< 1.0	-	< 1.0
Ethylbenzene	µg/kg	5	MCERTS	< 1.0	< 1.0	-	< 1.0
p & m-xylene	µg/kg	5	MCERTS	< 1.0	< 1.0	-	< 1.0
o-xylene	µg/kg	5	MCERTS	< 1.0	< 1.0	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 1.0	< 1.0	-	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS 1D AL}	mg/kg	0.001	NONE	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 _{HS 1D AL}	mg/kg	0.001	NONE	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 _{HS 1D AL}	mg/kg	0.001	NONE	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 _{EH CU 1D AL}	mg/kg	1	MCERTS	< 1.0	4.1	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 _{EH CU 1D AL}	mg/kg	2	MCERTS	< 2.0	23	-	7.6
TPH-CWG - Aliphatic >EC16 - EC21 _{EH CU 1D AL}	mg/kg	8	MCERTS	< 8.0	25	-	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 _{EH CU 1D AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	-	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35) _{EH CU+HS 1D AL}	mg/kg	10	NONE	< 10	58	-	14

TPH-CWG - Aromatic >EC5 - EC7 _{HS 1D AR}	mg/kg	0.001	NONE	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 _{HS 1D AR}	mg/kg	0.001	NONE	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 _{HS 1D AR}	mg/kg	0.001	NONE	< 0.001	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12* _{EH CU 1D AR}	mg/kg	1	NONE	< 1.0	2.3	-	1.4
TPH-CWG - Aromatic >EC12 - EC16* _{EH CU 1D AR}	mg/kg	2	NONE	2.3	15	-	11
TPH-CWG - Aromatic >EC16 - EC21* _{EH CU 1D AR}	mg/kg	10	NONE	< 10	34	-	57
TPH-CWG - Aromatic >EC21 - EC35* _{EH CU 1D AR}	mg/kg	10	NONE	< 10	31	-	50
TPH-CWG - Aromatic (EC5 - EC35) _{EH CU+HS 1D AR}	mg/kg	10	NONE	< 10	82	-	120

VOCs

Chloromethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
Chloroethane	µg/kg	5	NONE	-	-	< 1.0	-
Bromomethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
Vinyl Chloride	µg/kg	5	NONE	-	-	< 1.0	-
Trichlorofluoromethane	µg/kg	5	NONE	-	-	< 1.0	-
1,1-Dichloroethene	µg/kg	5	NONE	-	-	< 1.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	< 1.0	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	< 1.0	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	< 1.0	-
Trichloromethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-	< 1.0	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	-	-	< 1.0	-
Benzene	µg/kg	5	MCERTS	-	-	< 1.0	-
Tetrachloromethane	µg/kg	5	NONE	-	-	< 1.0	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	< 1.0	-
Trichloroethene	µg/kg	5	ISO 17025	-	-	< 1.0	-
Dibromomethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	< 1.0	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	< 1.0	-
Toluene	µg/kg	5	MCERTS	-	-	< 1.0	-

Analytical Report Number: 22-98464

Project / Site name: Braemar Avenue Baptist Church London N22

Lab Sample Number				2509263	2509264	2509265	2509266
Sample Reference				BH1	TP2	TP4	TP4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.50	0.25	0.50
Date Sampled				19/11/2022	19/11/2022	19/11/2022	19/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	< 1.0	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
Tetrachloroethene	µg/kg	5	NONE	-	-	< 1.0	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
Chlorobenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 1.0	-
p & m-Xylene	µg/kg	5	MCERTS	-	-	< 1.0	-
Styrene	µg/kg	5	ISO 17025	-	-	< 1.0	-
Tribromomethane	µg/kg	5	NONE	-	-	< 1.0	-
o-Xylene	µg/kg	5	MCERTS	-	-	< 1.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	< 1.0	-
Isopropylbenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-
Bromobenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	< 1.0	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	< 1.0	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-	< 1.0	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-
Butylbenzene	µg/kg	5	NONE	-	-	< 1.0	-
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	< 1.0	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-
Hexachlorobutadiene	µg/kg	5	NONE	-	-	< 1.0	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	< 1.0	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	< 0.1	-
Phenol	mg/kg	0.2	MCERTS	-	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	0.12	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1	-

Analytical Report Number: 22-98464

Project / Site name: Braemar Avenue Baptist Church London N22

Lab Sample Number				2509263	2509264	2509265	2509266
Sample Reference				BH1	TP2	TP4	TP4
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.50	0.25	0.50
Date Sampled				19/11/2022	19/11/2022	19/11/2022	19/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	< 0.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	0.09	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	< 0.05	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	< 0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	-	-	0.06	-
Azobenzene	mg/kg	0.3	NONE	-	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	1.1	-
Anthracene	mg/kg	0.05	MCERTS	-	-	0.31	-
Carbazole	mg/kg	0.3	MCERTS	-	-	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	< 0.2	-
Anthraquinone	mg/kg	0.3	NONE	-	-	< 0.3	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	3.2	-
Pyrene	mg/kg	0.05	MCERTS	-	-	2.9	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	1.7	-
Chrysene	mg/kg	0.05	MCERTS	-	-	1.4	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	1.6	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	1.4	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	1.7	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	0.91	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	0.18	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	1.1	-

U/S = Unsuitable Sample I/S = Insufficient Sample

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted and the failure justified as having no significant impact on sample data reported.

Analytical Report Number : 22-98464

Project / Site name: Braemar Avenue Baptist Church London N22

* 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 *
2509263	BH1	None Supplied	0.25	Brown clay.
2509264	TP2	None Supplied	0.5	Brown clay.
2509265	TP4	None Supplied	0.25	Brown clay and sand with gravel.
2509266	TP4	None Supplied	0.5	Brown clay and sand with gravel and vegetation.

Analytical Report Number : 22-98464

Project / Site name: Braemar Avenue Baptist Church London N22

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	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
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' 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 30oC. Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
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Analytical Report Number : 22-98464

Project / Site name: Braemar Avenue Baptist Churh London N22

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
HS	Headspace Analysis				
MS	Mass spectrometry				
FID	Flame Ionisation Detector				
GC	Gas Chromatography				
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))				
CU	Clean-up - e.g. by Florisil®, silica gel				
1D	GC - Single coil/column gas chromatography				
2D	GC-GC - Double coil/column gas chromatography				
Total	Aliphatics & Aromatics				
AL	Aliphatics				
AR	Aromatics				
#1	EH_2D_Total but with humics mathematically subtracted				
#2	EH_2D_Total but with fatty acids mathematically subtracted				
_	Operator - understore to separate acronyms (exception for +)				
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total				



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Environmental Science

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Analytical Report Number : 22-10813

Project / Site name:	Braemar Avenue Baptist Church London N22	Samples received on:	01/12/2022
Your job number:	12942	Samples instructed on/ Analysis started on:	01/12/2022
Your order number:		Analysis completed by:	08/12/2022
Report Issue Number:	1	Report issued on:	08/12/2022
Samples Analysed:	1 water sample		

Signed:

Izabela Wójcik

Izabela Wójcik
Reporting Specialist
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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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.



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Analytical Report Number: 22-10813
Project / Site name: Braemar Avenue Baptist Church London N22

Lab Sample Number				2518595
Sample Reference				BH1
Sample Number				None Supplied
Depth (m)				3.70
Date Sampled				01/12/2022
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status	

General Inorganics

pH	pH Units	N/A	ISO 17025	7.4
Free Cyanide	µg/l	10	ISO 17025	< 10

Total Phenols

Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10
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Speciated PAHs

Naphthalene	µg/l	0.01	NONE	< 0.01*
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16
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Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.67
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.05
Chromium (dissolved)	µg/l	0.2	ISO 17025	0.7
Copper (dissolved)	µg/l	0.5	ISO 17025	7.8
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	3.4
Selenium (dissolved)	µg/l	0.6	ISO 17025	2.3
Zinc (dissolved)	µg/l	0.5	ISO 17025	16

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0



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Analytical Report Number: 22-10813
Project / Site name: Braemar Avenue Baptist Church London N22

Lab Sample Number				2518595
Sample Reference				BH1
Sample Number				None Supplied
Depth (m)				3.70
Date Sampled				01/12/2022
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >C5 - C6 _{HS_1D_AL}	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C6 - C8 _{HS_1D_AL}	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C8 - C10 _{HS_1D_AL}	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C10 - C12 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C12 - C16 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C16 - C21 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C21 - C35 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic (C5 - C35) _{HS+EH_1D_AL_MS}	µg/l	10	NONE	< 10

TPH-CWG - Aromatic >C5 - C7 _{HS_1D_AR}	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C7 - C8 _{HS_1D_AR}	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C8 - C10 _{HS_1D_AR}	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C10 - C12 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C12 - C16 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C16 - C21 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C21 - C35 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10
TPH-CWG - Aromatic (C5 - C35) _{HS+EH_1D_AR_MS}	µg/l	10	NONE	< 10

VOCs

Chloromethane	µg/l	1	ISO 17025	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0



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Analytical Report Number: 22-10813
Project / Site name: Braemar Avenue Baptist Church London N22

Lab Sample Number				2518595
Sample Reference				BH1
Sample Number				None Supplied
Depth (m)				3.70
Date Sampled				01/12/2022
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status	
p & m-Xylene	µg/l	1	ISO 17025	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0

SVOCs

Aniline	µg/l	0.05	NONE	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05



Analytical Report Number: 22-10813
Project / Site name: Braemar Avenue Baptist Church London N22

Lab Sample Number				2518595
Sample Reference				BH1
Sample Number				None Supplied
Depth (m)				3.70
Date Sampled				01/12/2022
Time Taken				None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status	
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01
3&4-Methylphenol	µg/l	0.1	NONE	< 0.10

U/S = Unsuitable Sample I/S = Insufficient Sample
*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted and the failure justified as having no significant impact on sample data reported.



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Analytical Report Number : 22-10813
Project / Site name: Braemar Avenue Baptist Church London N22

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Free cyanide in water	Determination of free cyanide by distillation followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	ISO 17025
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025



Analytical Report Number : 22-10813
Project / Site name: Braemar Avenue Baptist Church London N22

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' 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 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

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Analytical Report Number : 22-96116

Project / Site name:	Braemar Avenue Baptist Church London N22	Samples received on:	11/11/2022
Your job number:	12942	Samples instructed on/ Analysis started on:	11/11/2022
Your order number:		Analysis completed by:	25/11/2022
Report Issue Number:	1	Report issued on:	25/11/2022
Samples Analysed:	1 10:1 WAC Sample		

Signed:


Dominika Warjan
Junior Reporting Specialist
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

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

i2 Analytical

7 Woodshots Meadow
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Watford, WD18 8YS

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email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	22-96116						
				Client: CHELMER			
Location	Braemar Avenue Baptist Church London N22						
Lab Reference (Sample Number)	2496611 / 2496612			Landfill Waste Acceptance Criteria			
				Limits			
Sampling Date	09/11/2022			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID	BH1						
Depth (m)	0.25						
Solid Waste Analysis							
TOC (%)**	0.9			3%	5%	6%	
Loss on Ignition (%) **	4.8			--	--	10%	
BTEX (µg/kg)	< 10			6000	--	--	
Sum of PCBs (mg/kg)	< 0.007			1	--	--	
Mineral Oil (mg/kg) EH, 1D, CU, AL	< 10			500	--	--	
Total PAH (WAC-17) (mg/kg)	8.49			100	--	--	
pH (units)**	8.1			--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	6.4			--	To be evaluated	To be evaluated	
Eluate Analysis							
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1		10:1	Limit values for compliance leaching test			
	mg/l			using BS EN 12457-3 at L/S 10 l/kg (mg/kg)			
				mg/kg			
Arsenic *	0.0012		< 0.0100	0.5	2	25	
Barium *	0.0172		0.131	20	100	300	
Cadmium *	< 0.0001		< 0.0008	0.04	1	5	
Chromium *	0.0020		0.016	0.5	10	70	
Copper *	0.014		0.11	2	50	100	
Mercury *	< 0.0005		< 0.0050	0.01	0.2	2	
Molybdenum *	0.0053		0.0403	0.5	10	30	
Nickel *	0.0014		0.011	0.4	10	40	
Lead *	0.0059		0.045	0.5	10	50	
Antimony *	< 0.0017		< 0.017	0.06	0.7	5	
Selenium *	< 0.0040		< 0.040	0.1	0.5	7	
Zinc *	0.014		0.11	4	50	200	
Chloride *	0.75		5.7	800	15000	25000	
Fluoride*	1.4		11	10	150	500	
Sulphate *	6.8		52	1000	20000	50000	
TDS*	69		530	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.010		< 0.10	1	-	-	
DOC	9.20		70.1	500	800	1000	
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.80						
Dry Matter (%)	79						
Moisture (%)	21						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation							
** = UKAS accredited (liquid eluate analysis only)							
** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Analytical Report Number : 22-96116

Project / Site name: Braemar Avenue Baptist Church London N22

* 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 *
2496611	BH1	None Supplied	0.25	Brown clay and loam.

Analytical Report Number : 22-96116

Project / Site name: Braemar Avenue Baptist Church London N22

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance"	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270.	L064-PL	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	NONE
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	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
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	NONE
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073-PL	W	NONE
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by EC probe using a factor of 0.6.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031	W	ISO 17025

Analytical Report Number : 22-96116

Project / Site name: Braemar Avenue Baptist Church London N22

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' 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 30oC

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
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MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
-	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total



REPORT NOTES

Equipment Used

Hand tools, Mechanical Concrete Breaker and Spade, Hand Augers, 100mm/150mm diameter Mechanical Flight Auger Rig, GEO205 Flight Auger Rig, Window Sampling Rig, and Large or Limited Access Shell & Auger Rig upon request and/or access permitting.

On Site Tests

By Pilcon Shear-Vane Tester (kN/m) in clay soils, and/or Mackintosh Probe in granular soils or made ground and/or upon request Continuous Dynamic Probe Testing and Standard Penetration Testing.

Note:

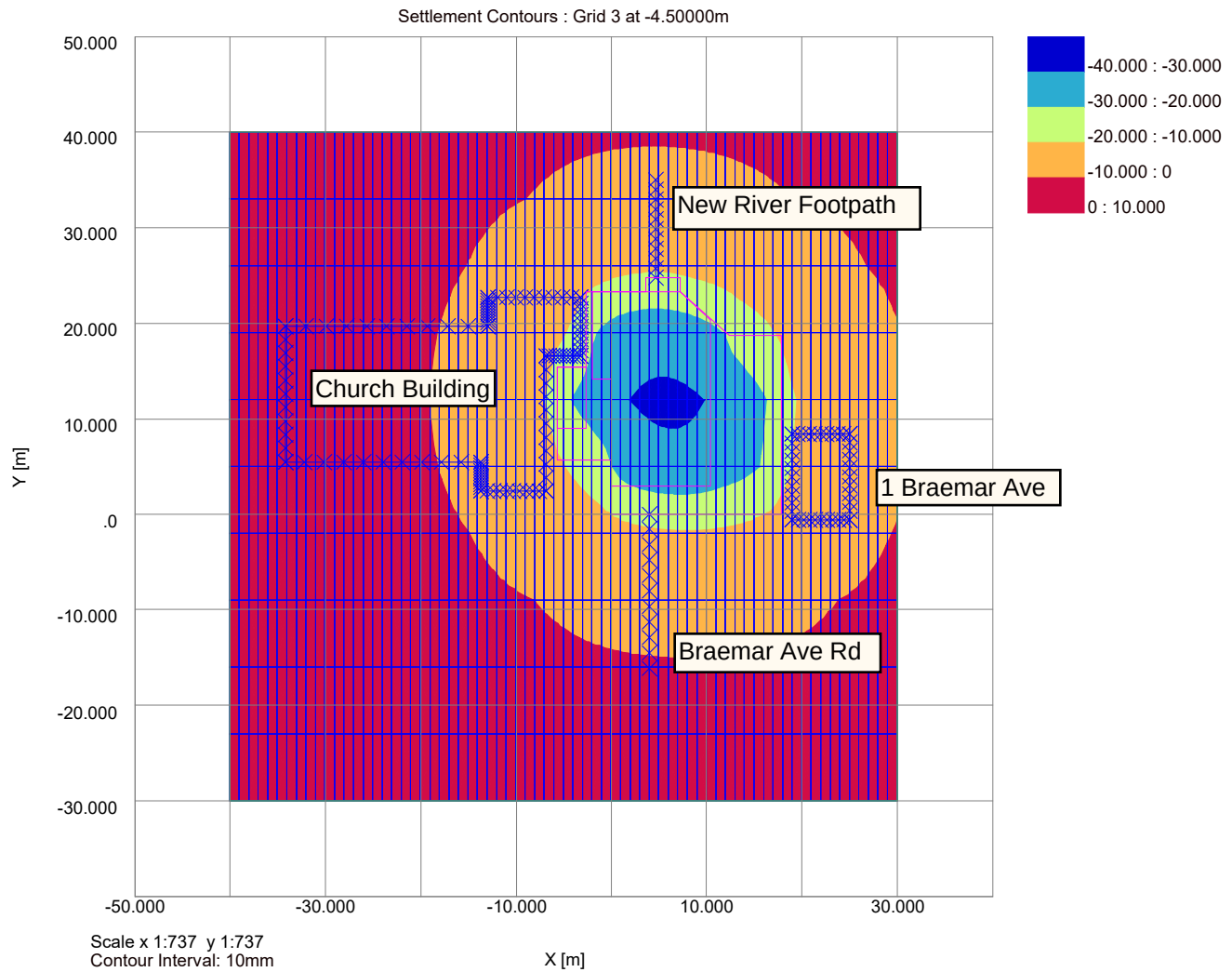
Details reported in trial-pits and boreholes relate to positions investigated only as instructed by the client or engineer on the date shown.

We are therefore unable to accept any responsibility for changes in soil conditions not investigated i.e. variations due to climate, season, vegetation and varying ground water levels.

Full terms and conditions are available upon request.

Annex E: Ground Movement Assessment Calculations

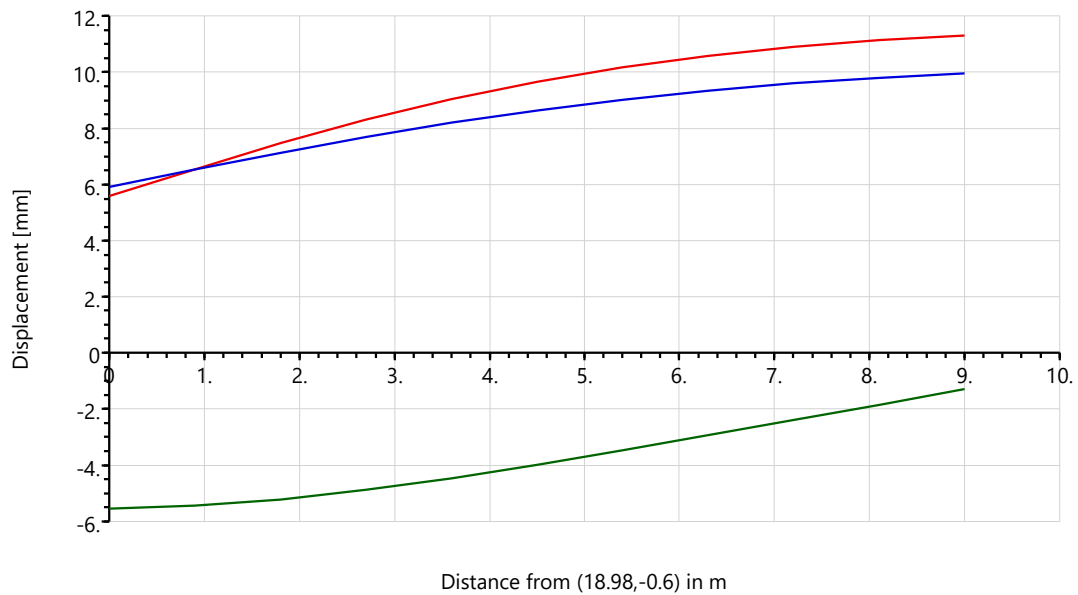
- Oasys PDisp Software Output
- Oasys XDisp Software Input and Output



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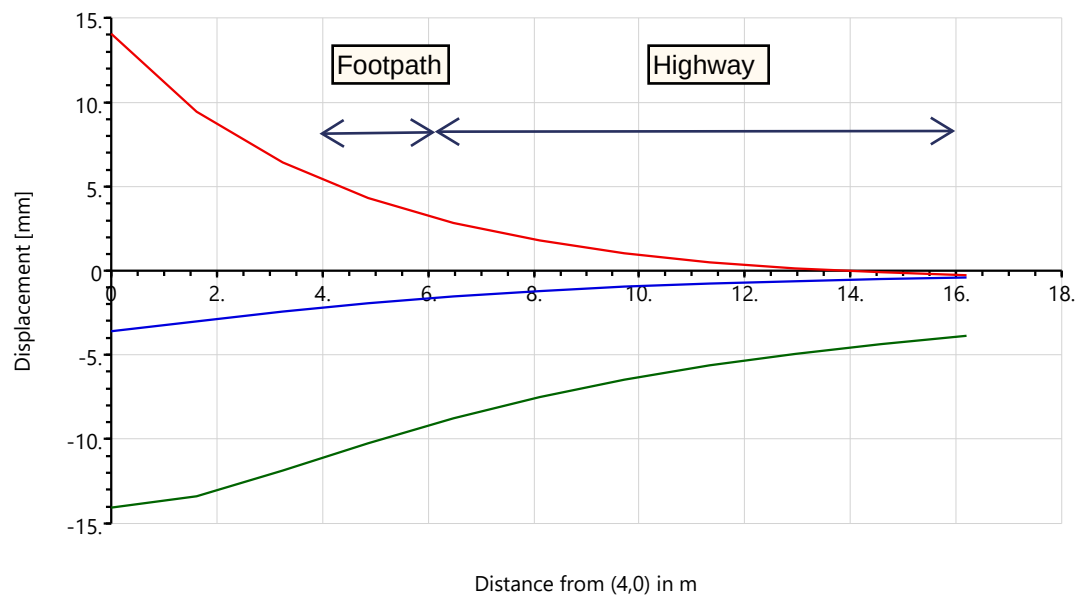
Displacement for 1 Braemar Ave North Wall

- Vertical Displacement
- Horizontal Displacement x
- Horizontal Displacement y



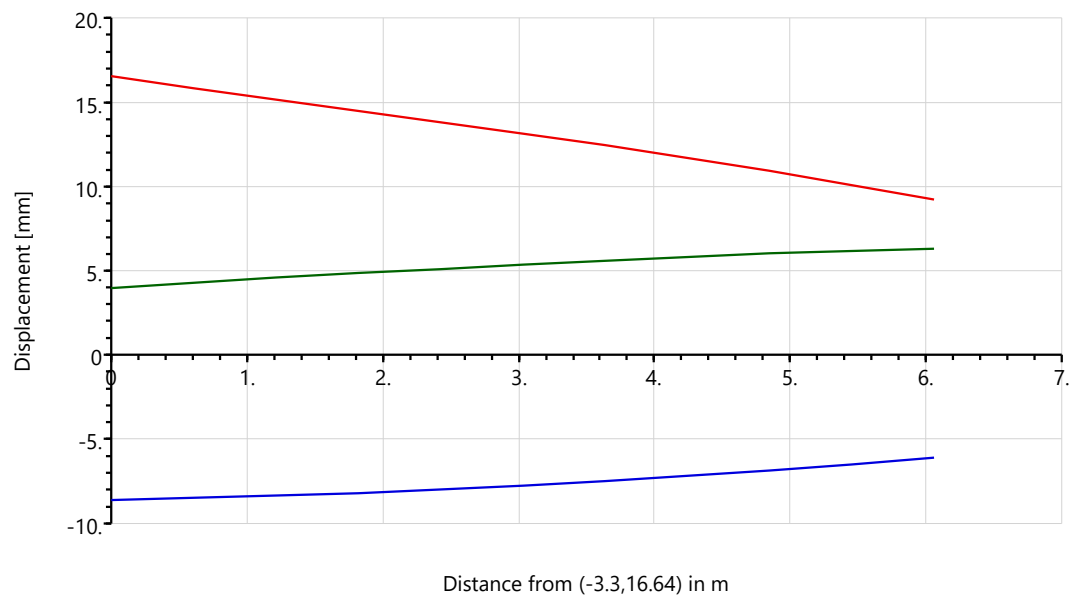
Displacement for Braemar Ave Rd Displacement Line

- Vertical Displacement
- Horizontal Displacement x
- Horizontal Displacement y



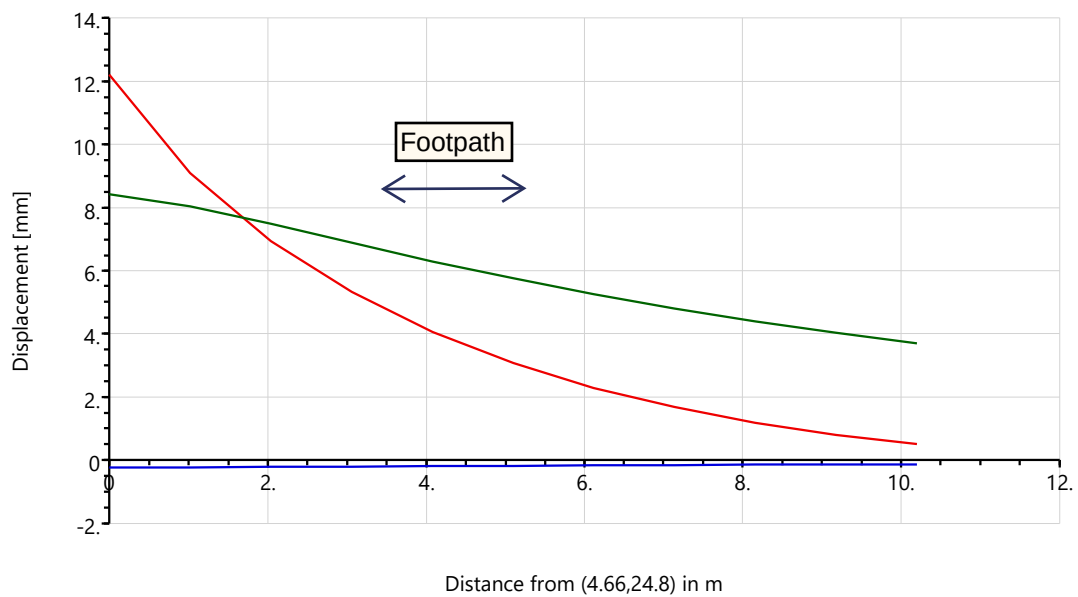
Displacement for Braemar Ave Church South Wall 3

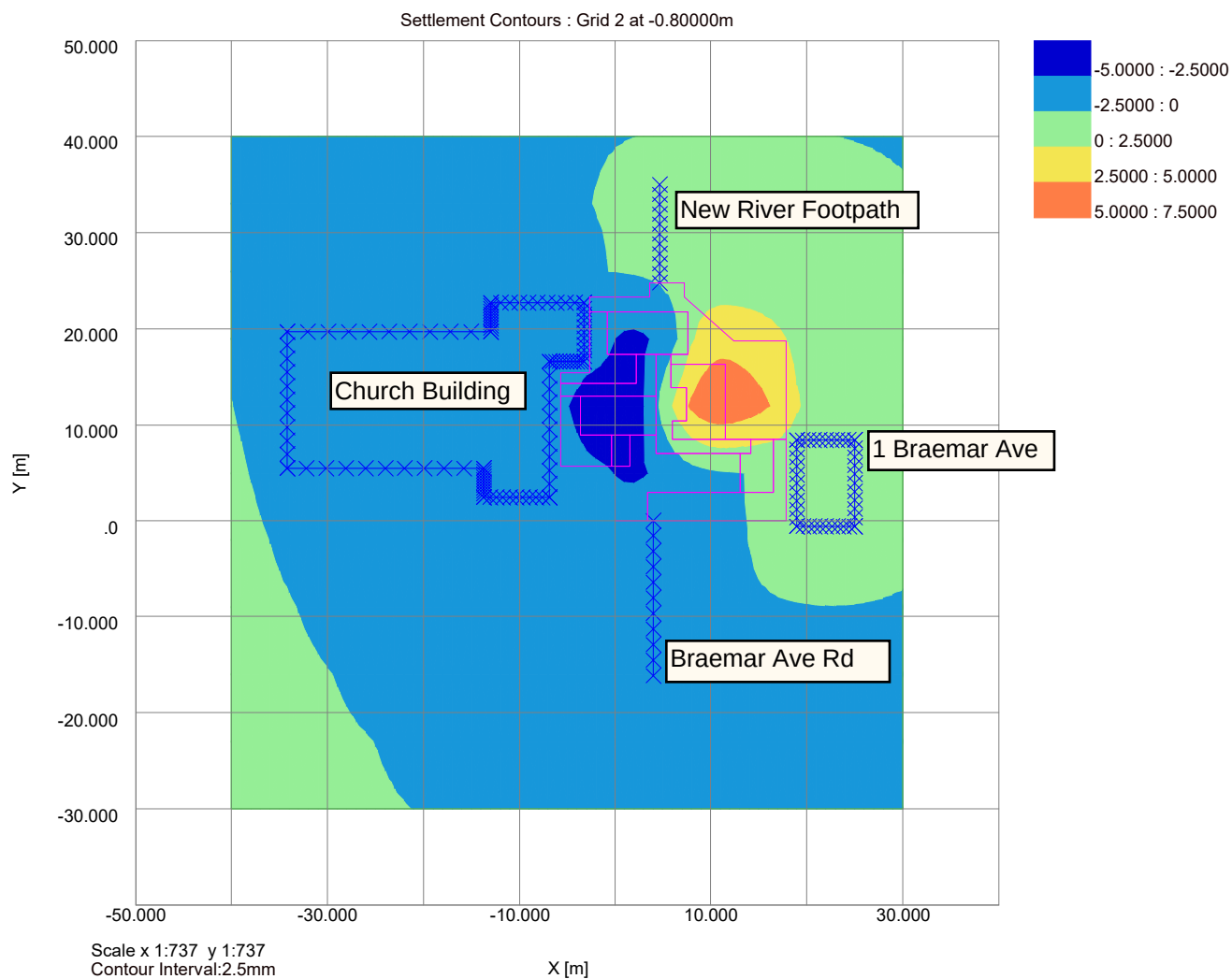
— Vertical Displacement
— Horizontal Displacement x
— Horizontal Displacement y



Displacement for New River Footpath

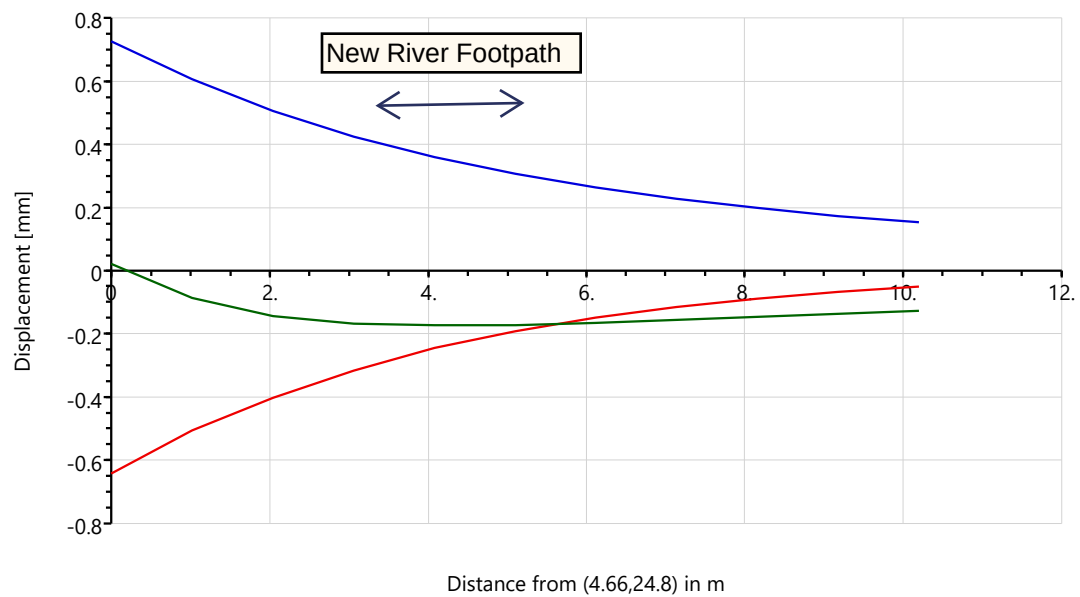
— Vertical Displacement
— Horizontal Displacement x
— Horizontal Displacement y





Displacement for New River Footpath

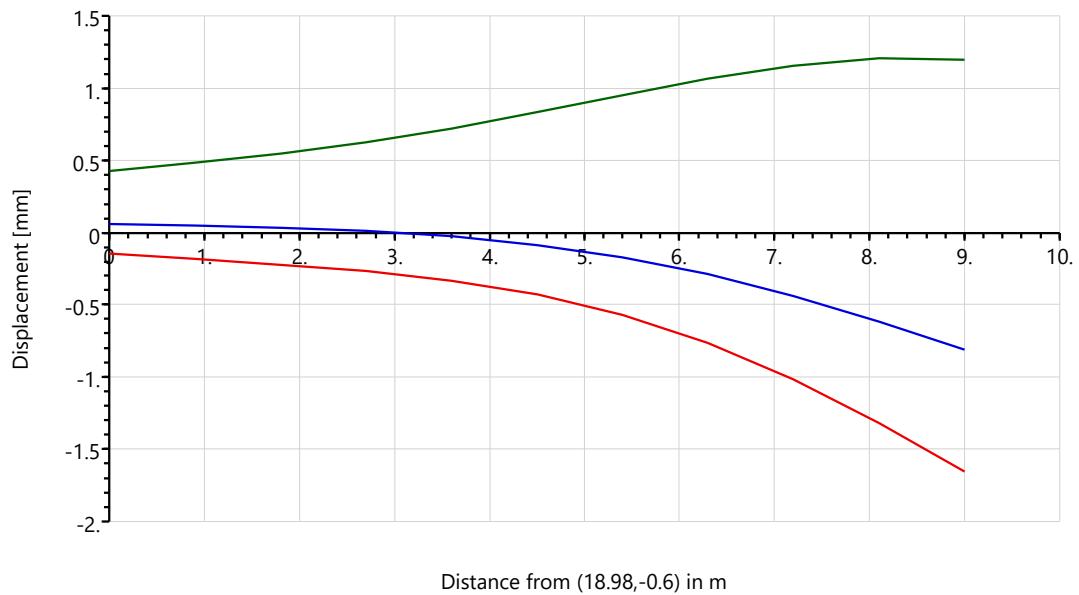
— Vertical Displacement
— Horizontal Displacement x
— Horizontal Displacement y



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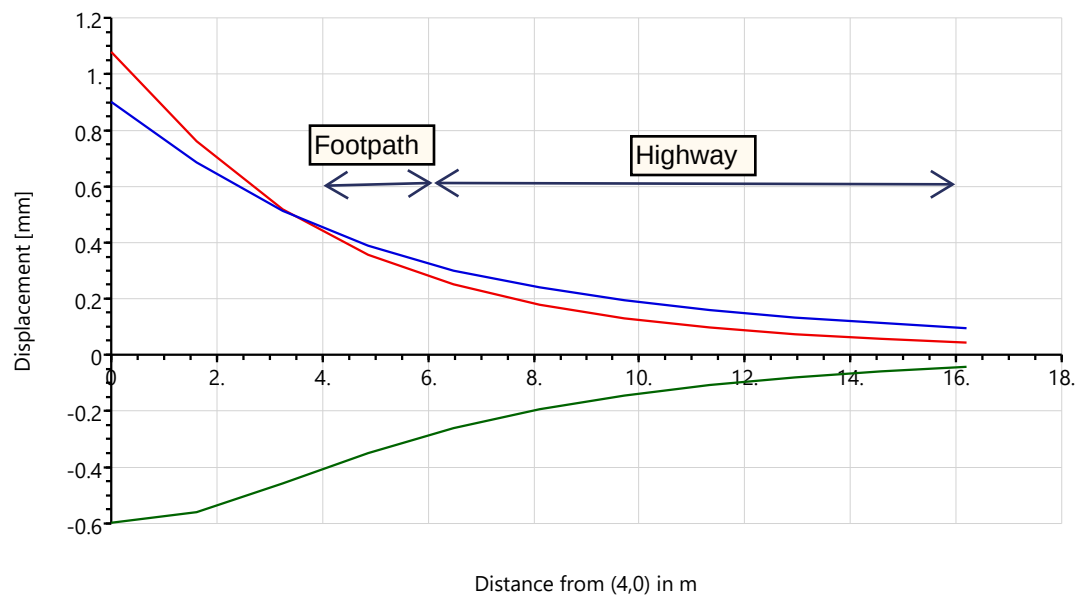
Displacement for 1 Braemar Ave North Wall

- Vertical Displacement
- Horizontal Displacement x
- Horizontal Displacement y



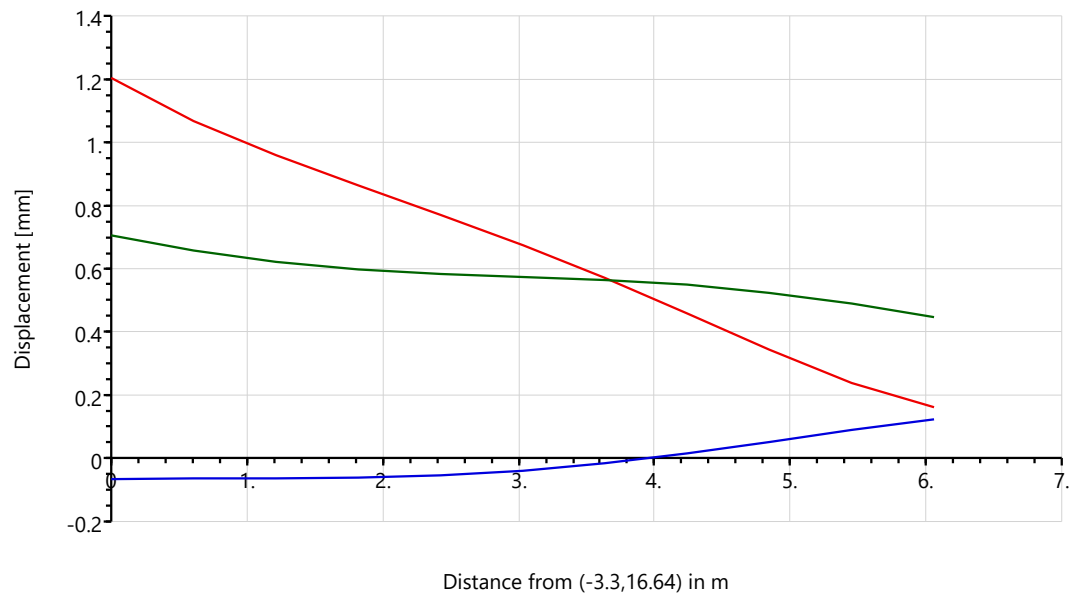
Displacement for Braemar Ave Rd Displacement Line

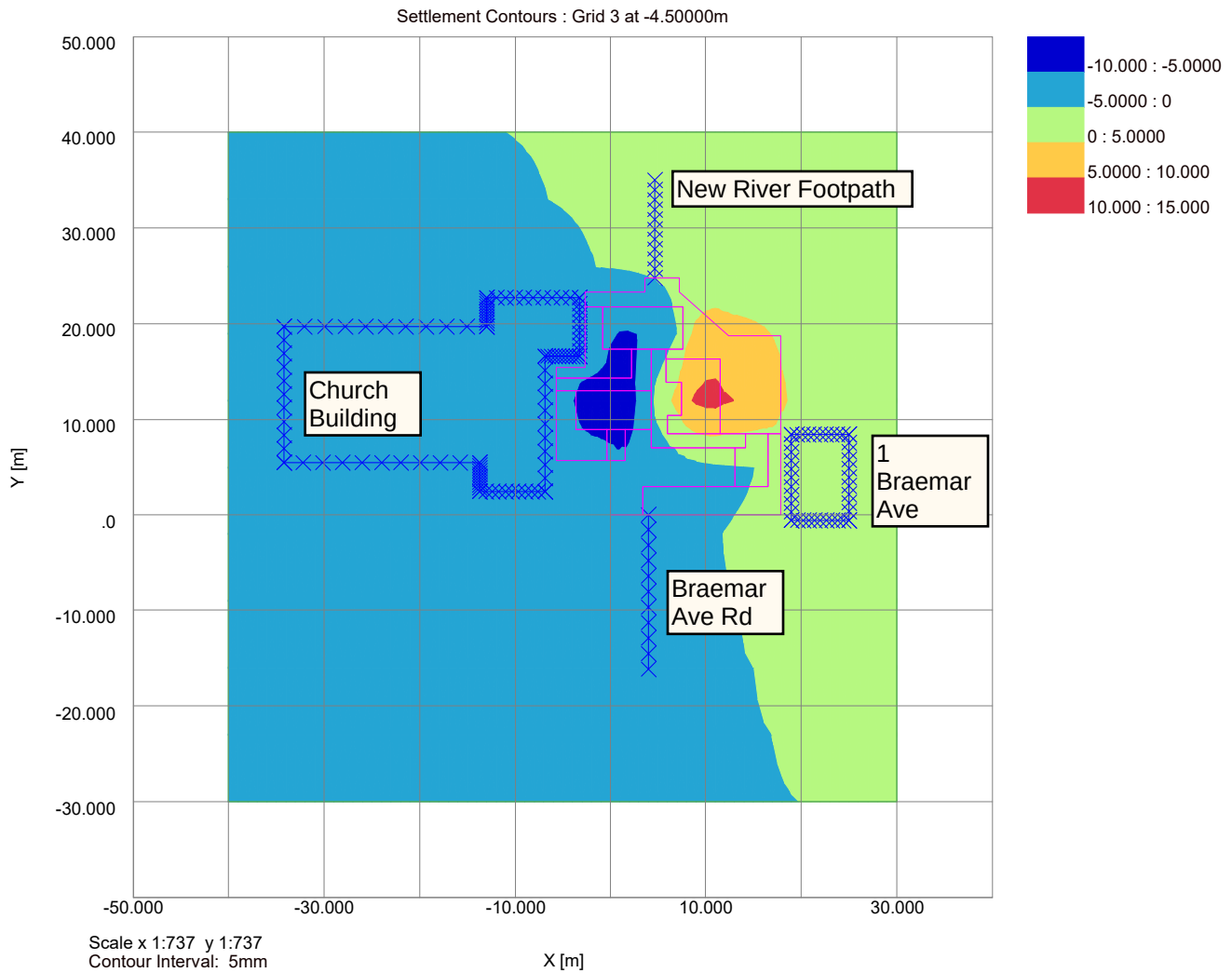
- Vertical Displacement
- Horizontal Displacement x
- Horizontal Displacement y



Displacement for Braemar Ave Church South Wall 3

— Vertical Displacement
— Horizontal Displacement x
— Horizontal Displacement y

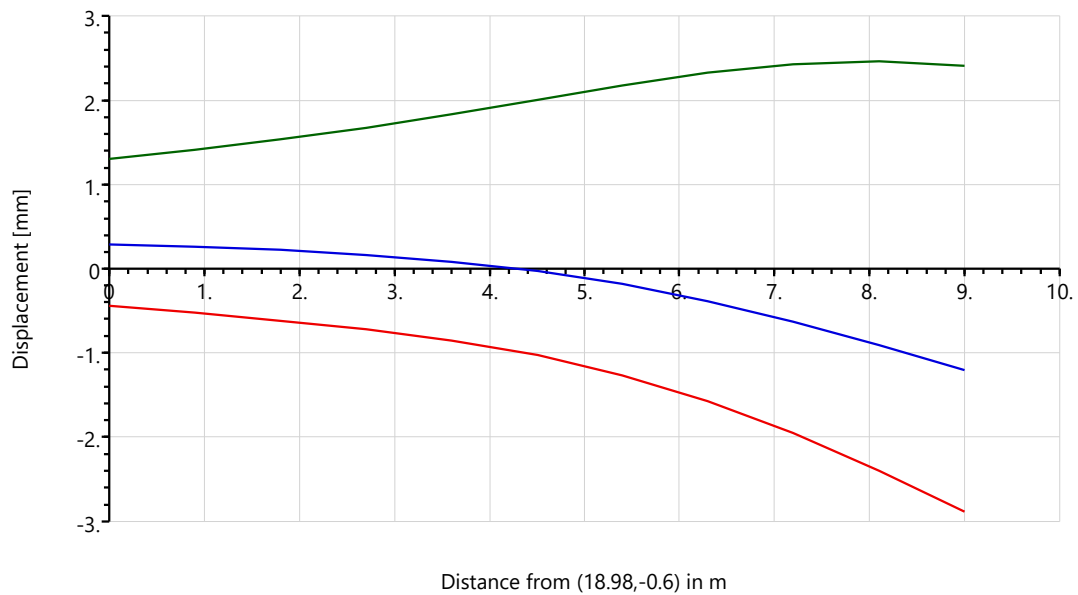




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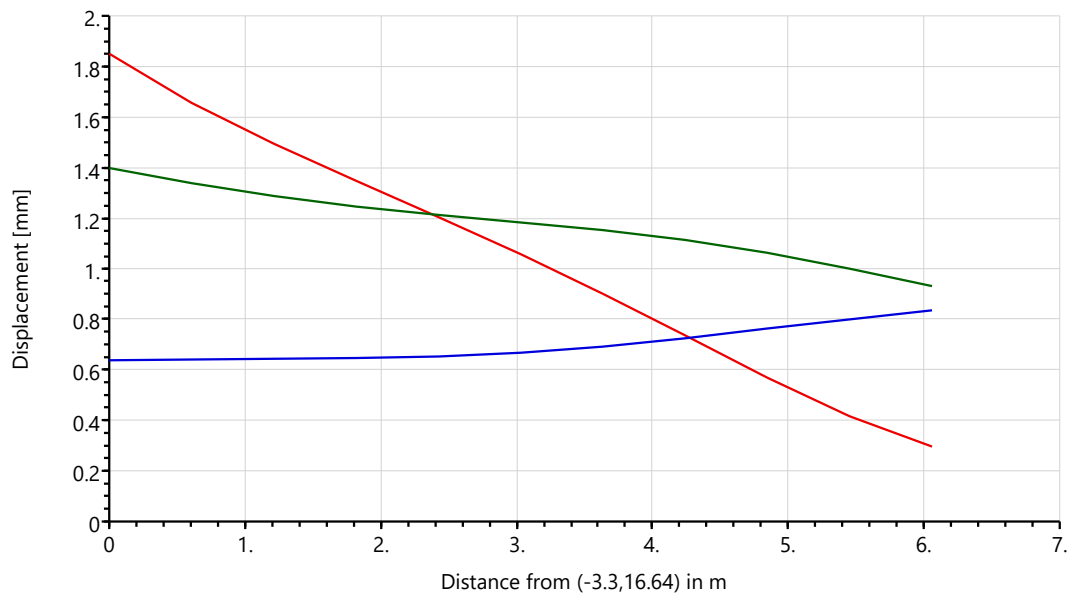
Displacement for 1 Braemar Ave North Wall

- Vertical Displacement
- Horizontal Displacement x
- Horizontal Displacement y



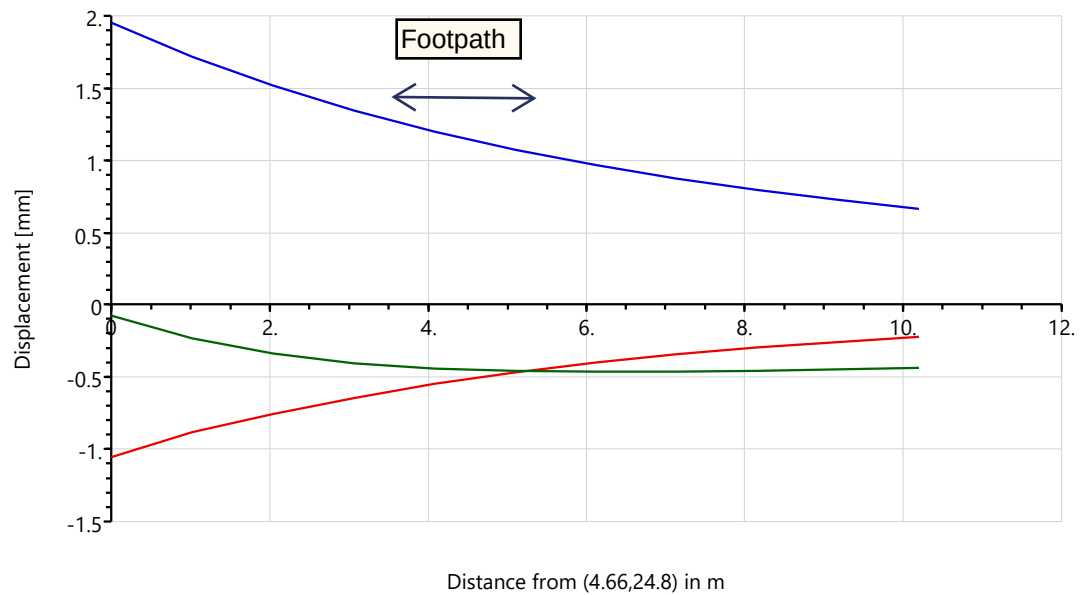
Displacement for Braemar Ave Church South Wall 3

— Vertical Displacement
— Horizontal Displacement x
— Horizontal Displacement y



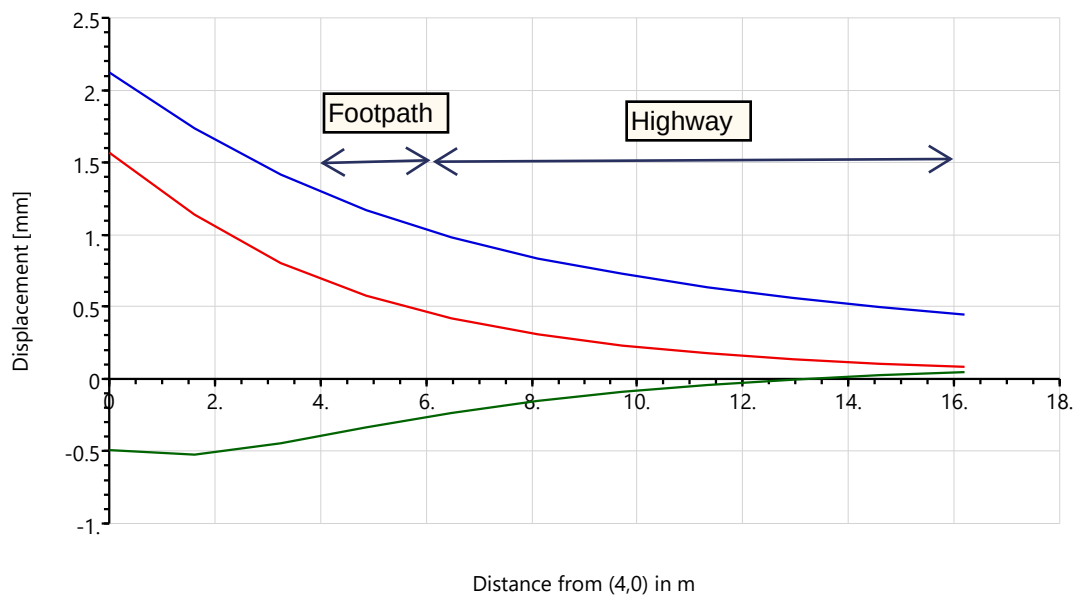
Displacement for New River Footpath

- Vertical Displacement
- Horizontal Displacement x
- Horizontal Displacement y

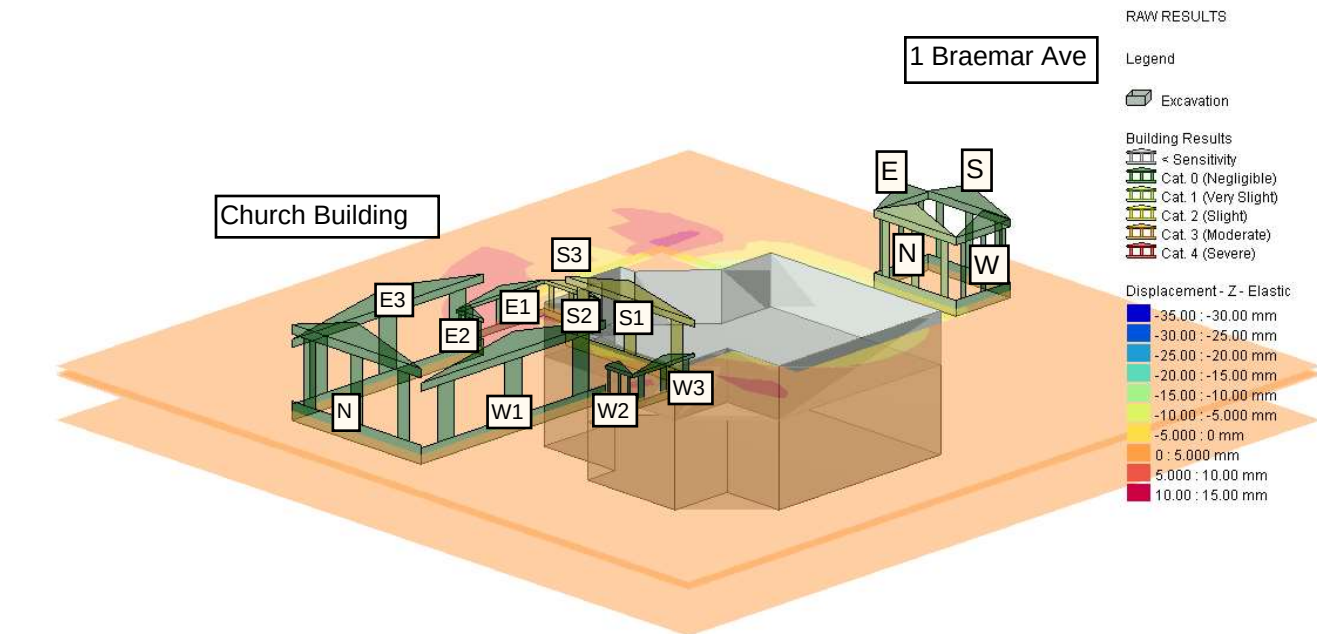


Displacement for Braemar Ave Rd Displacement Line

- Vertical Displacement
- Horizontal Displacement x
- Horizontal Displacement y



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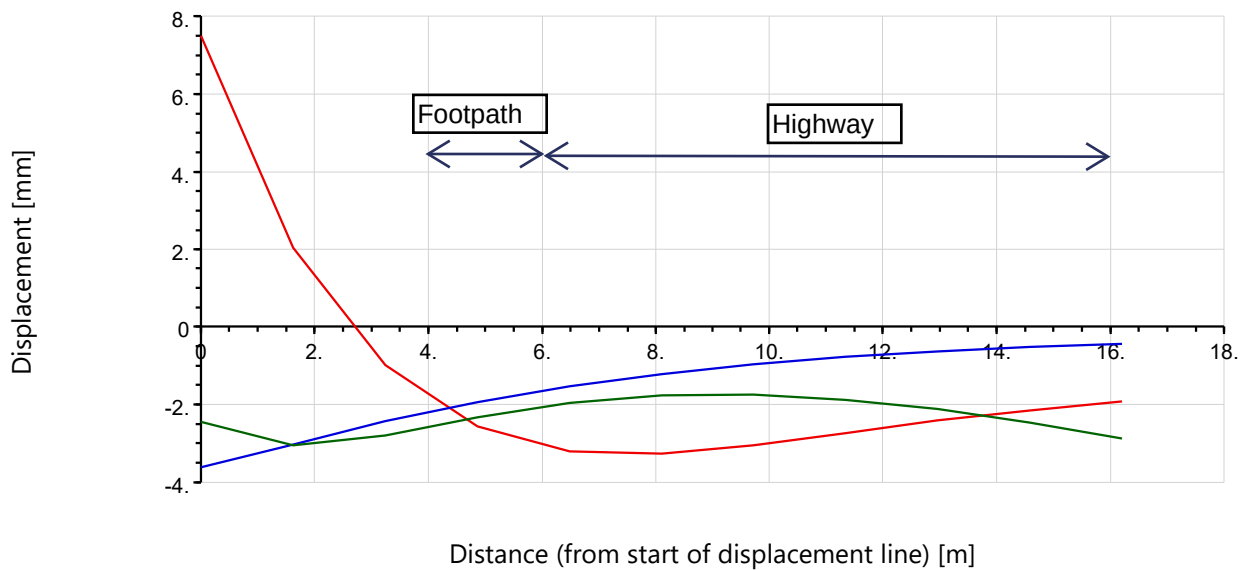
Displacement Line - Displacement Chart

Stage: Base Model, Displacement Line 13: Braemar Ave Rd Displacement Line

— Vertical Displacement

— Horizontal Displacement x

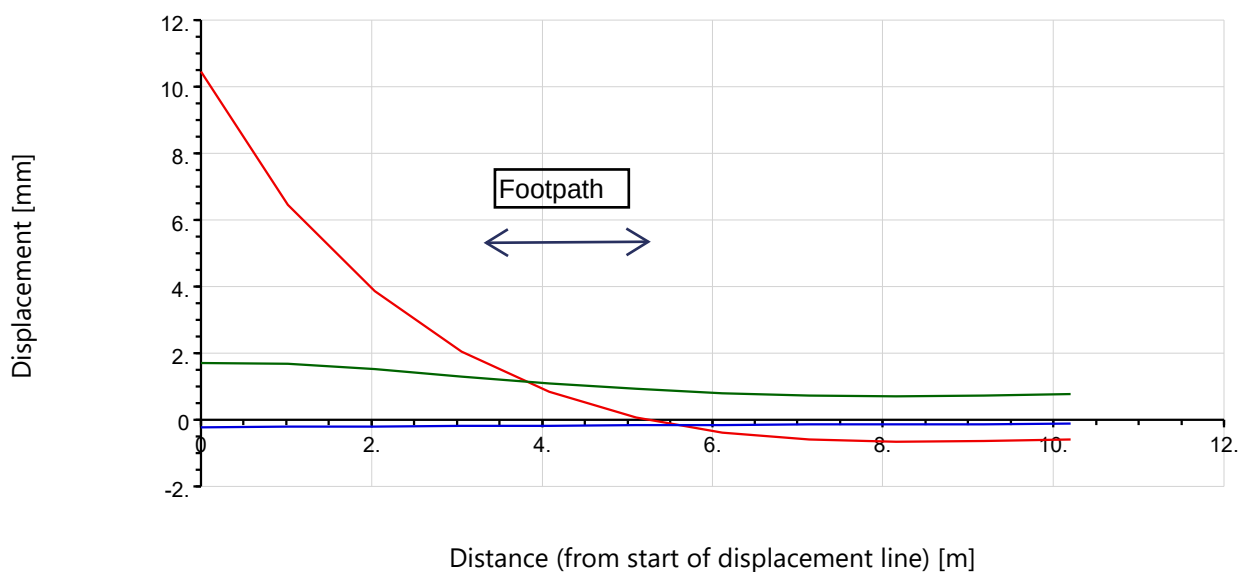
— Horizontal Displacement y



Displacement Line - Displacement Chart

Stage: Base Model, Displacement Line 16: New River Footpath

- Vertical Displacement
- Horizontal Displacement x
- Horizontal Displacement y





Braemar Avenue

Short Term Analysis No Load From Superstructure

Job No.	Sheet No.	Rev.
517419		
Drg. Ref.		
Made by HM	Date 20-Dec-2022	Checked Date

Titles

Job No.: 517419
Job Title: Braemar Avenue
Sub-title: Short Term Analysis No Load From Superstructure
Calculation Heading:
Initials: HM
Checker:
Date Saved: 20-Dec-2022
Date Checked:
Notes:
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20-12-22.xdd
File Path: L:\Projects\Projects_UK\2022 - (475611 -)\10-Oct (515201 -)\517419_Braemar Avenue Baptist Church, London\10-Data\10.10 - Other\Geotechnical Assessment Files\GMA\XDisp\Re-entrant Corners

History

Date	Time	By	Notes
12-Dec-2022	10:54	HMcAllister	New
12-Dec-2022	11:54	HMcAllister	
12-Dec-2022	12:30	HMcAllister	
12-Dec-2022	13:07	HMcAllister	
12-Dec-2022	13:30	HMcAllister	
14-Dec-2022	11:39	HMcAllister	
14-Dec-2022	11:51	HMcAllister	
14-Dec-2022	12:18	HMcAllister	
20-Dec-2022	14:26	HMcAllister	
20-Dec-2022	16:51	HMcAllister	Open

Displacement Lines

Ref.	Name	x1	y1	z1	x2	y2	z2	Intervals	Surface
Interpolate	Calculate								type
imported									for
displacements									tunnels
		[m]	[m]	[m]	[m]	[m]	[m]	[No.]	
1	1 Braemar Ave North Wall	18.98000	-0.60000	-0.60000	18.98000	8.40000	-0.60000	10	Surface
No	Yes								
2	1 Braemar Ave East Wall	18.98000	8.40000	-0.60000	24.98000	8.40000	-0.60000	10	Surface
No	Yes								
3	1 Braemar Ave South Wall	24.98000	8.40000	-0.60000	24.98000	-0.60000	-0.60000	10	Surface
No	Yes								
4	1 Braemar Ave West Wall	24.98000	-0.60000	-0.60000	18.98000	-0.60000	-0.60000	10	Surface
No	Yes								
5	Braemar Ave Church South Wall 1	-6.92000	2.44000	-0.80000	-6.92000	16.64000	-0.80000	10	Surface
No	Yes								
6	Braemar Ave Church South Wall 2	-6.92000	16.64000	-0.80000	-3.30000	16.64000	-0.80000	10	Surface
No	Yes								
7	Braemar Ave Church South Wall 3	-3.30000	16.64000	-0.80000	-3.30000	22.70000	-0.80000	10	Surface
No	Yes								
8	Braemar Ave Church East Wall 1	-3.30000	22.70000	-0.80000	-13.00000	22.70000	-0.80000	10	Surface
No	Yes								
9	Braemar Ave Church East Wall 2	-13.00000	22.70000	-0.80000	-13.00000	19.68000	-0.80000	10	Surface
No	Yes								
10	Braemar Ave Church East Wall 3	-13.00000	19.68000	-0.80000	-34.20000	19.68000	-0.80000	10	Surface
No	Yes								
11	Braemar Ave Church North Wall	-34.20000	19.68000	-0.80000	-34.20000	5.46000	-0.80000	10	Surface

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Ref.	Name	x1	y1	z1	x2	y2	z2	Intervals	Surface
Interpolate	Calculate								
									type
imported									
No	Yes								
12	Braemar Ave Church West Wall 1	-34.20000	5.46000	-0.80000	-13.72000	5.46000	-0.80000	10	Surface
No	Yes								
13	Braemar Ave Rd Displacement Line	4.00000	0.00000	0.00000	4.00000	-16.20000	0.00000	10	Surface
No	Yes								
14	Braemar Ave Church West Wall 2	-13.72000	5.46000	-0.80000	-13.72000	2.44000	-0.80000	10	Surface
No	Yes								
15	Braemar Ave Church West Wall 3	-13.72000	2.44000	-0.80000	-6.92000	2.44000	-0.80000	10	Surface
No	Yes								
16	New River Footpath	4.66000	24.80000	-1.00000	4.66000	35.00000	-1.00000	10	Surface
No	Yes								

Displacement Grids

Ref.	Name	Extrusion:	Base line	Base line	Base	Base	Base	Base	Base
Extrusion:	Extrusion:	Surface	Calculate						
Distance	Intervals	type	Direction	start: X	start: Y	line	line	line	line:
						start:	end:	end: Y	end: Intervals
						Z (level)	X	Z (level)	
tunnels									
[m]	[No.]			[m]	[m]	[m]	[m]	[m]	[No.]
1	Ground Level	Global X	-40.00000	-30.00000	0.00000	-	40.00000	0.00000	10
70.00000	70 Surface Yes								
2	Neighbouring Foundations Church	Global X	-40.00000	-30.00000	-0.80000	-	40.00000	-0.80000	10
70.00000	70 Surface Yes								
3	New Basement Level	Global X	-40.00000	-30.00000	-4.50000	-	40.00000	-4.50000	10
70.00000	70 Surface Yes								
4	1 Braemar Ave Foundations	Global X	-40.00000	-30.00000	-0.60000	-	40.00000	-0.60000	10
70.00000	70 Surface Yes								

Imported Displacements

Set:	Set:	Result:	Coordinates:	Coordinates:	Coordinates:
Displacements:	Displacements:				
Ref.	Name	Ref.	x	y	z
x	y				
[mm]	[mm]		[m]	[m]	[m]
1	PDisp Short Term Undrained no load from superstructure -	1	18.98000	-0.60000	-0.60000
5.93193	-5.55723 -5.58740 1,2,6				
	20-12-22.pdd - Immediate				
6.53986	-5.45236 -6.55164 1,2,6	2	18.98000	0.30000	-0.60000
		3	18.98000	1.20000	-0.60000
7.13529	-5.22287 -7.48052 1,2,6				
		4	18.98000	2.10000	-0.60000
7.69338	-4.88452 -8.31529 1,2,6				
		5	18.98000	3.00000	-0.60000
8.19784	-4.46401 -9.03998 1,2,6				
		6	18.98000	3.90000	-0.60000
8.64121	-3.98775 -9.65343 1,2,6				
		7	18.98000	4.80000	-0.60000
9.02204	-3.47633 -10.16101 1,2,6				
		8	18.98000	5.70000	-0.60000
9.34194	-2.94379 -10.57082 1,2,6				
		9	18.98000	6.60000	-0.60000
9.60370	-2.39881 -10.89136 1,2,6				
		10	18.98000	7.50000	-0.60000
9.81016	-1.84618 -11.13008 1,2,6				
		11	18.98000	8.40000	-0.60000



Braemar Avenue

Short Term Analysis No Load From Superstructure

Job No.	Sheet No.	Rev.
517419		
Drg. Ref.		
Made by HM	Date 20-Dec-2022	Checked Date

Set:			Result: Coordinates: Coordinates: Coordinates:			
Displacements:	Displacements:	Displacements:	Ref.	x	y	z
Ref.		Name				
x	y	z				
9.96362	-1.28816	-11.29266 1,2,6	12	19.58000	8.40000	-0.60000
9.74882	-1.20505	-9.83735 1,2,6	13	20.18000	8.40000	-0.60000
9.45382	-1.12588	-8.55293 1,2,6	14	20.78000	8.40000	-0.60000
9.10323	-1.05083	-7.42003 1,2,6	15	21.38000	8.40000	-0.60000
8.71868	-0.98000	-6.42331 1,2,6	16	21.98000	8.40000	-0.60000
8.31747	-0.91341	-5.54823 1,2,6	17	22.58000	8.40000	-0.60000
7.91253	-0.85105	-4.78091 1,2,6	18	23.18000	8.40000	-0.60000
7.51306	-0.79285	-4.10851 1,2,6	19	23.78000	8.40000	-0.60000
7.12529	-0.73866	-3.51937 1,2,6	20	24.38000	8.40000	-0.60000
6.75317	-0.68834	-3.00312 1,2,6	21	24.98000	8.40000	-0.60000
6.39904	-0.64169	-2.55061 1,2,6	22	24.98000	7.50000	-0.60000
6.31628	-0.91371	-2.50276 1,2,6	23	24.98000	6.60000	-0.60000
6.20302	-1.17753	-2.43330 1,2,6	24	24.98000	5.70000	-0.60000
6.06006	-1.43030	-2.34275 1,2,6	25	24.98000	4.80000	-0.60000
5.88853	-1.66895	-2.23188 1,2,6	26	24.98000	3.90000	-0.60000
5.69014	-1.89020	-2.10192 1,2,6	27	24.98000	3.00000	-0.60000
5.46729	-2.09066	-1.95465 1,2,6	28	24.98000	2.10000	-0.60000
5.22322	-2.26708	-1.79255 1,2,6	29	24.98000	1.20000	-0.60000
4.96206	-2.41666	-1.61876 1,2,6	30	24.98000	0.30000	-0.60000
4.68871	-2.53742	-1.43703 1,2,6	31	24.98000	-0.60000	-0.60000
4.40856	-2.62850	-1.25149 1,2,6	32	24.38000	-0.60000	-0.60000
4.58505	-2.82479	-1.49943 1,2,6	33	23.78000	-0.60000	-0.60000
4.76575	-3.03909	-1.77795 1,2,6	34	23.18000	-0.60000	-0.60000
4.94893	-3.27304	-2.09060 1,2,6	35	22.58000	-0.60000	-0.60000
5.13208	-3.52830	-2.44131 1,2,6	36	21.98000	-0.60000	-0.60000
5.31166	-3.80638	-2.83429 1,2,6	37	21.38000	-0.60000	-0.60000
5.48287	-4.10857	-3.27397 1,2,6	38	20.78000	-0.60000	-0.60000
5.63935	-4.43561	-3.76493 1,2,6	39	20.18000	-0.60000	-0.60000
5.77298	-4.78736	-4.31159 1,2,6	40	19.58000	-0.60000	-0.60000
5.87405	-5.16234	-4.91800 1,2,6	41	-6.92000	2.44000	-0.80000
-5.82830	-4.26240	-4.51912 1,2,6	42	-6.92000	3.86000	-0.80000
-6.54381	-4.17260	-5.65552 1,2,6	43	-6.92000	5.28000	-0.80000
-7.28358	-3.89425	-6.97022 1,2,6	44	-6.92000	6.70000	-0.80000
-7.98412	-3.36011	-8.31092 1,2,6	45	-6.92000	8.12000	-0.80000
-8.56276	-2.58682	-9.42145 1,2,6	46	-6.92000	9.54000	-0.80000
-8.96944	-1.65335	-10.19164 1,2,6				



Braemar Avenue

Short Term Analysis No Load From Superstructure

Job No.	Sheet No.	Rev.
517419		
Drg. Ref.		
Made by HM	Date 20-Dec-2022	Checked Date

Set:			Set:	Result: Coordinates: Coordinates: Coordinates:			
Displacements:	Displacements:	Displacements:	Name	Ref.	x	y	z
Ref.	x	y	z				
-9.18652	-0.63530	-10.56923	1,2,6	47	-6.92000	10.96000	-0.80000
-9.20892	0.40312	-10.53310	1,2,6	48	-6.92000	12.38000	-0.80000
-9.03647	1.39391	-10.07795	1,2,6	49	-6.92000	13.80000	-0.80000
-8.68570	2.24930	-9.23533	1,2,6	50	-6.92000	15.22000	-0.80000
-8.21037	2.90285	-8.18884	1,2,6	51	-6.92000	16.64000	-0.80000
-8.35651	3.03391	-8.86777	1,2,6	52	-6.55800	16.64000	-0.80000
-8.48549	3.16347	-9.58689	1,2,6	53	-6.19600	16.64000	-0.80000
-8.59465	3.28959	-10.34397	1,2,6	54	-5.83400	16.64000	-0.80000
-8.68151	3.41024	-11.13553	1,2,6	55	-5.47200	16.64000	-0.80000
-8.74380	3.52348	-11.95807	1,2,6	56	-5.11000	16.64000	-0.80000
-8.77937	3.62764	-12.80963	1,2,6	57	-4.74800	16.64000	-0.80000
-8.78605	3.72144	-13.69042	1,2,6	58	-4.38600	16.64000	-0.80000
-8.76163	3.80416	-14.60300	1,2,6	59	-4.02400	16.64000	-0.80000
-8.70381	3.87568	-15.55320	1,2,6	60	-3.66200	16.64000	-0.80000
-8.61041	3.93648	-16.55345	1,2,6	61	-3.30000	16.64000	-0.80000
-8.50243	4.26349	-15.83364	1,2,6	62	-3.30000	17.24600	-0.80000
-8.36381	4.56386	-15.15414	1,2,6	63	-3.30000	17.85200	-0.80000
-8.19334	4.84654	-14.49271	1,2,6	64	-3.30000	18.45800	-0.80000
-7.99044	5.11667	-13.83215	1,2,6	65	-3.30000	19.06400	-0.80000
-7.75483	5.37559	-13.15769	1,2,6	66	-3.30000	19.67000	-0.80000
-7.48657	5.62113	-12.45660	1,2,6	67	-3.30000	20.27600	-0.80000
-7.18624	5.84799	-11.71852	1,2,6	68	-3.30000	20.88200	-0.80000
-6.85546	6.04803	-10.93593	1,2,6	69	-3.30000	21.48800	-0.80000
-6.49757	6.21093	-10.10395	1,2,6	70	-3.30000	22.09400	-0.80000
-6.11830	6.32583	-9.21990	1,2,6	71	-3.30000	22.70000	-0.80000
-6.13685	5.71343	-7.49948	1,2,6	72	-4.27000	22.70000	-0.80000
-6.00670	5.13303	-6.10954	1,2,6	73	-5.24000	22.70000	-0.80000
-5.78880	4.59844	-4.96240	1,2,6	74	-6.21000	22.70000	-0.80000
-5.52556	4.11334	-4.01174	1,2,6	75	-7.18000	22.70000	-0.80000
-5.24256	3.67679	-3.22162	1,2,6	76	-8.15000	22.70000	-0.80000
-4.95479	3.28609	-2.56328	1,2,6	77	-9.12000	22.70000	-0.80000
-4.67107	2.93787	-2.01382	1,2,6	78	-10.09000	22.70000	-0.80000
-4.39665	2.62855	-1.55477	1,2,6	79	-11.06000	22.70000	-0.80000
-4.13457	2.35446	-1.17113	1,2,6	80	-12.03000	22.70000	-0.80000
-3.88647	2.11204	-0.85053	1,2,6	81	-13.00000	22.70000	-0.80000
				82	-13.00000	22.39800	-0.80000



Braemar Avenue

Short Term Analysis No Load From Superstructure

Job No.	Sheet No.	Rev.
517419		
Drg. Ref.		
Made by HM	Date 20-Dec-2022	Checked Date

Set:			Result: Coordinates: Coordinates: Coordinates:			
Displacements:	Displacements:	Displacements:	Ref.	x	y	z
Ref.		Name				
x	y	z				
-3.95734	2.08955	-0.89687 1,2,6	83	-13.00000	22.09600	-0.80000
-4.02809	2.06506	-0.94350 1,2,6	84	-13.00000	21.79400	-0.80000
-4.09863	2.03854	-0.99037 1,2,6	85	-13.00000	21.49200	-0.80000
-4.16888	2.00996	-1.03742 1,2,6	86	-13.00000	21.19000	-0.80000
-4.23876	1.97929	-1.08458 1,2,6	87	-13.00000	20.88800	-0.80000
-4.30817	1.94652	-1.13181 1,2,6	88	-13.00000	20.58600	-0.80000
-4.37703	1.91160	-1.17902 1,2,6	89	-13.00000	20.28400	-0.80000
-4.44525	1.87453	-1.22617 1,2,6	90	-13.00000	19.98200	-0.80000
-4.51274	1.83527	-1.27316 1,2,6	91	-13.00000	19.68000	-0.80000
-4.57940	1.79381	-1.31994 1,2,6	92	-15.12000	19.68000	-0.80000
-3.91704	1.39215	-0.60774 1,2,6	93	-17.24000	19.68000	-0.80000
-3.36707	1.09440	-0.14065 1,2,6	94	-19.36000	19.68000	-0.80000
-2.91340	0.87217	0.16356 1,2,6	95	-21.48000	19.68000	-0.80000
-2.53877	0.70439	0.35861 1,2,6	96	-23.60000	19.68000	-0.80000
-2.22795	0.57605	0.47983 1,2,6	97	-25.72000	19.68000	-0.80000
-1.96838	0.47654	0.55072 1,2,6	98	-27.84000	19.68000	-0.80000
-1.75006	0.39838	0.58720 1,2,6	99	-29.96000	19.68000	-0.80000
-1.56509	0.33624	0.60018 1,2,6	100	-32.08000	19.68000	-0.80000
-1.40725	0.28626	0.59727 1,2,6	101	-34.20000	19.68000	-0.80000
-1.27164	0.24564	0.58378 1,2,6	102	-34.20000	18.25800	-0.80000
-1.29431	0.20466	0.58602 1,2,6	103	-34.20000	16.83600	-0.80000
-1.31289	0.16163	0.58780 1,2,6	104	-34.20000	15.41400	-0.80000
-1.32706	0.11693	0.58916 1,2,6	105	-34.20000	13.99200	-0.80000
-1.33658	0.07103	0.59013 1,2,6	106	-34.20000	12.57000	-0.80000
-1.34128	0.02440	0.59072 1,2,6	107	-34.20000	11.14800	-0.80000
-1.34108	-0.02244	0.59095 1,2,6	108	-34.20000	9.72600	-0.80000
-1.33599	-0.06898	0.59080 1,2,6	109	-34.20000	8.30400	-0.80000
-1.32611	-0.11473	0.59028 1,2,6	110	-34.20000	6.88200	-0.80000
-1.31161	-0.15920	0.58935 1,2,6	111	-34.20000	5.46000	-0.80000
-1.29277	-0.20194	0.58798 1,2,6	112	-32.15200	5.46000	-0.80000
-1.42758	-0.23529	0.60092 1,2,6	113	-30.10400	5.46000	-0.80000
-1.58412	-0.27628	0.60376 1,2,6	114	-28.05600	5.46000	-0.80000
-1.76712	-0.32719	0.59153 1,2,6	115	-26.00800	5.46000	-0.80000
-1.98265	-0.39117	0.55720 1,2,6	116	-23.96000	5.46000	-0.80000
-2.23847	-0.47256	0.49065 1,2,6	117	-21.91200	5.46000	-0.80000
-2.54453	-0.57755	0.37720 1,2,6				



Braemar Avenue

Short Term Analysis No Load From Superstructure

Job No.	Sheet No.	Rev.
517419		
Drg. Ref.		
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Set:			Set:	Result: Coordinates: Coordinates: Coordinates:			
Displacements:	Displacements:	Displacements:	Name	Ref.	x	y	z
Ref.							
x	y	z					
-2.91358	-0.71505	0.19503	1,2,6	118	-19.86400	5.46000	-0.80000
-3.36162	-0.89807	-0.08875	1,2,6	119	-17.81600	5.46000	-0.80000
-3.90779	-1.14586	-0.52476	1,2,6	120	-15.76800	5.46000	-0.80000
-4.57195	-1.48681	-1.19186	1,2,6	121	-13.72000	5.46000	-0.80000
-3.62756	-14.08601	-14.05828	1	122	4.00000	0.00000	0.00000
-3.02649	-13.37053	-9.45686	1	123	4.00000	-1.62000	0.00000
-2.44063	-11.88572	-6.45213	1	124	4.00000	-3.24000	0.00000
-1.93646	-10.24839	-4.33404	1	125	4.00000	-4.86000	0.00000
-1.53089	-8.76809	-2.84388	1	126	4.00000	-6.48000	0.00000
-1.21477	-7.52022	-1.79599	1	127	4.00000	-8.10000	0.00000
-0.97117	-6.49091	-1.05780	1	128	4.00000	-9.72000	0.00000
-0.78362	-5.64447	-0.53632	1	129	4.00000	-11.34000	0.00000
-0.63852	-4.94546	-0.16719	1	130	4.00000	-12.96000	0.00000
-0.52542	-4.36413	0.09387	1	131	4.00000	-14.58000	0.00000
-0.43647	-3.87684	0.27748	1	132	4.00000	-16.20000	0.00000
-4.51225	-1.53553	-1.15020	1,2,6	133	-13.72000	5.15800	-0.80000
-4.45123	-1.58182	-1.10781	1,2,6	134	-13.72000	4.85600	-0.80000
-4.38902	-1.62564	-1.06482	1,2,6	135	-13.72000	4.55400	-0.80000
-4.32580	-1.66702	-1.02135	1,2,6	136	-13.72000	4.25200	-0.80000
-4.26169	-1.70597	-0.97753	1,2,6	137	-13.72000	3.95000	-0.80000
-4.19685	-1.74250	-0.93347	1,2,6	138	-13.72000	3.64800	-0.80000
-4.13141	-1.77666	-0.88928	1,2,6	139	-13.72000	3.34600	-0.80000
-4.06550	-1.80847	-0.84507	1,2,6	140	-13.72000	3.04400	-0.80000
-3.99925	-1.83800	-0.80095	1,2,6	141	-13.72000	2.74200	-0.80000
-3.93278	-1.86529	-0.75699	1,2,6	142	-13.72000	2.44000	-0.80000
-4.11246	-2.02250	-0.96692	1,2,6	143	-13.04000	2.44000	-0.80000
-4.29902	-2.19538	-1.20477	1,2,6	144	-12.36000	2.44000	-0.80000
-4.49157	-2.38530	-1.47379	1,2,6	145	-11.68000	2.44000	-0.80000
-4.68883	-2.59360	-1.77747	1,2,6	146	-11.00000	2.44000	-0.80000
-4.88897	-2.82146	-2.11940	1,2,6	147	-10.32000	2.44000	-0.80000
-5.08959	-3.06976	-2.50323	1,2,6	148	-9.64000	2.44000	-0.80000
-5.28765	-3.33890	-2.93243	1,2,6	149	-8.96000	2.44000	-0.80000
-5.47951	-3.62852	-3.41004	1,2,6	150	-8.28000	2.44000	-0.80000
-5.66111	-3.93724	-3.93846	1,2,6	151	-7.60000	2.44000	-0.80000
-0.23975	8.43547	-12.21873	1	152	4.66000	24.80000	-1.00000
				153	4.66000	25.82000	-1.00000



Braemar Avenue

Short Term Analysis No Load From Superstructure

Job No.	Sheet No.	Rev.
517419		
Drg. Ref.		
Made by HM	Date 20-Dec-2022	Checked Date

Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-0.22631	8.04332	-9.08847	1	154	4.66000	26.84000	-1.00000
-0.21197	7.49508	-6.94907	1	155	4.66000	27.86000	-1.00000
-0.19940	6.89404	-5.31529	1	156	4.66000	28.88000	-1.00000
-0.18845	6.30307	-4.04925	1	157	4.66000	29.90000	-1.00000
-0.17817	5.75018	-3.06071	1	158	4.66000	30.92000	-1.00000
-0.16797	5.24530	-2.28457	1	159	4.66000	31.94000	-1.00000
-0.15774	4.79015	-1.67252	1	160	4.66000	32.96000	-1.00000
-0.14757	4.38263	-1.18818	1	161	4.66000	33.98000	-1.00000
-0.13761	4.01898	-0.80375	1	162	4.66000	35.00000	-1.00000
-0.12800	3.69478	-0.49790	1	163	-40.00000	-30.00000	0.00000
-0.56941	-0.50855	0.33047	1	164	-39.00000	-30.00000	0.00000
-0.57759	-0.52712	0.33832	1	165	-38.00000	-30.00000	0.00000
-0.58566	-0.54641	0.34627	1	166	-37.00000	-30.00000	0.00000
-0.59358	-0.56644	0.35431	1	167	-36.00000	-30.00000	0.00000
-0.60133	-0.58723	0.36244	1	168	-35.00000	-30.00000	0.00000
-0.60885	-0.60879	0.37063	1	169	-34.00000	-30.00000	0.00000
-0.61612	-0.63114	0.37889	1	170	-33.00000	-30.00000	0.00000
-0.62310	-0.65430	0.38719	1	171	-32.00000	-30.00000	0.00000
-0.62974	-0.67828	0.39553	1	172	-31.00000	-30.00000	0.00000
-0.63598	-0.70309	0.40389	1	173	-30.00000	-30.00000	0.00000
-0.64178	-0.72873	0.41226	1	174	-29.00000	-30.00000	0.00000
-0.64709	-0.75522	0.42061	1	175	-28.00000	-30.00000	0.00000
-0.65184	-0.78256	0.42894	1	176	-27.00000	-30.00000	0.00000
-0.65598	-0.81074	0.43723	1	177	-26.00000	-30.00000	0.00000
-0.65943	-0.83975	0.44545	1	178	-25.00000	-30.00000	0.00000
-0.66212	-0.86958	0.45359	1	179	-24.00000	-30.00000	0.00000
-0.66399	-0.90021	0.46163	1	180	-23.00000	-30.00000	0.00000
-0.66496	-0.93162	0.46955	1	181	-22.00000	-30.00000	0.00000
-0.66496	-0.96377	0.47734	1	182	-21.00000	-30.00000	0.00000
-0.66389	-0.99663	0.48496	1	183	-20.00000	-30.00000	0.00000
-0.66169	-1.03013	0.49240	1	184	-19.00000	-30.00000	0.00000
-0.65826	-1.06424	0.49964	1	185	-18.00000	-30.00000	0.00000
-0.65353	-1.09887	0.50666	1	186	-17.00000	-30.00000	0.00000
-0.64741	-1.13395	0.51344	1	187	-16.00000	-30.00000	0.00000
-0.63982	-1.16939	0.51997	1	188	-15.00000	-30.00000	0.00000
-0.63069	-1.20509	0.52623	1				



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517419		
Drg. Ref.		
Made by HM	Date 20-Dec-2022	Checked Date

Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-0.61994	-1.24094	0.53221	1	189	-14.00000	-30.00000	0.00000
-0.60750	-1.27682	0.53788	1	190	-13.00000	-30.00000	0.00000
-0.59330	-1.31259	0.54324	1	191	-12.00000	-30.00000	0.00000
-0.57730	-1.34811	0.54829	1	192	-11.00000	-30.00000	0.00000
-0.55944	-1.38323	0.55301	1	193	-10.00000	-30.00000	0.00000
-0.53970	-1.41778	0.55740	1	194	-9.00000	-30.00000	0.00000
-0.51804	-1.45160	0.56145	1	195	-8.00000	-30.00000	0.00000
-0.49446	-1.48448	0.56516	1	196	-7.00000	-30.00000	0.00000
-0.46897	-1.51627	0.56855	1	197	-6.00000	-30.00000	0.00000
-0.44158	-1.54675	0.57160	1	198	-5.00000	-30.00000	0.00000
-0.41234	-1.57575	0.57433	1	199	-4.00000	-30.00000	0.00000
-0.38130	-1.60306	0.57674	1	200	-3.00000	-30.00000	0.00000
-0.34855	-1.62851	0.57884	1	201	-2.00000	-30.00000	0.00000
-0.31417	-1.65190	0.58065	1	202	-1.00000	-30.00000	0.00000
-0.27829	-1.67307	0.58216	1	203	0.00000	-30.00000	0.00000
-0.24102	-1.69185	0.58340	1	204	1.00000	-30.00000	0.00000
-0.20253	-1.70808	0.58437	1	205	2.00000	-30.00000	0.00000
-0.16298	-1.72163	0.58509	1	206	3.00000	-30.00000	0.00000
-0.12254	-1.73240	0.58556	1	207	4.00000	-30.00000	0.00000
-0.08141	-1.74027	0.58580	1	208	5.00000	-30.00000	0.00000
-0.03980	-1.74518	0.58581	1	209	6.00000	-30.00000	0.00000
0.00210	-1.74707	0.58560	1	210	7.00000	-30.00000	0.00000
0.04405	-1.74593	0.58517	1	211	8.00000	-30.00000	0.00000
0.08586	-1.74176	0.58452	1	212	9.00000	-30.00000	0.00000
0.12730	-1.73457	0.58366	1	213	10.00000	-30.00000	0.00000
0.16817	-1.72443	0.58259	1	214	11.00000	-30.00000	0.00000
0.20825	-1.71140	0.58130	1	215	12.00000	-30.00000	0.00000
0.24735	-1.69559	0.57978	1	216	13.00000	-30.00000	0.00000
0.28530	-1.67712	0.57804	1	217	14.00000	-30.00000	0.00000
0.32192	-1.65613	0.57605	1	218	15.00000	-30.00000	0.00000
0.35706	-1.63278	0.57383	1	219	16.00000	-30.00000	0.00000
0.39059	-1.60723	0.57134	1	220	17.00000	-30.00000	0.00000
0.42240	-1.57968	0.56860	1	221	18.00000	-30.00000	0.00000
0.45238	-1.55031	0.56558	1	222	19.00000	-30.00000	0.00000
0.48046	-1.51933	0.56228	1	223	20.00000	-30.00000	0.00000
				224	21.00000	-30.00000	0.00000



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
0.50659	-1.48694	0.55869	1	225	22.00000	-30.00000	0.00000
0.53073	-1.45333	0.55481	1	226	23.00000	-30.00000	0.00000
0.55287	-1.41871	0.55063	1	227	24.00000	-30.00000	0.00000
0.57300	-1.38328	0.54615	1	228	25.00000	-30.00000	0.00000
0.59115	-1.34722	0.54137	1	229	26.00000	-30.00000	0.00000
0.60734	-1.31071	0.53629	1	230	27.00000	-30.00000	0.00000
0.62161	-1.27393	0.53091	1	231	28.00000	-30.00000	0.00000
0.63404	-1.23704	0.52525	1	232	29.00000	-30.00000	0.00000
0.64468	-1.20018	0.51930	1	233	30.00000	-30.00000	0.00000
0.65361	-1.16348	0.51307	1	234	-40.00000	-23.00000	0.00000
-0.71007	-0.52819	0.37994	1	235	-39.00000	-23.00000	0.00000
-0.72442	-0.55065	0.38954	1	236	-38.00000	-23.00000	0.00000
-0.73888	-0.57420	0.39924	1	237	-37.00000	-23.00000	0.00000
-0.75344	-0.59889	0.40905	1	238	-36.00000	-23.00000	0.00000
-0.76806	-0.62478	0.41894	1	239	-35.00000	-23.00000	0.00000
-0.78269	-0.65192	0.42889	1	240	-34.00000	-23.00000	0.00000
-0.79730	-0.68036	0.43888	1	241	-33.00000	-23.00000	0.00000
-0.81182	-0.71016	0.44890	1	242	-32.00000	-23.00000	0.00000
-0.82622	-0.74137	0.45890	1	243	-31.00000	-23.00000	0.00000
-0.84042	-0.77403	0.46888	1	244	-30.00000	-23.00000	0.00000
-0.85436	-0.80821	0.47879	1	245	-29.00000	-23.00000	0.00000
-0.86795	-0.84395	0.48861	1	246	-28.00000	-23.00000	0.00000
-0.88111	-0.88130	0.49830	1	247	-27.00000	-23.00000	0.00000
-0.89374	-0.92031	0.50783	1	248	-26.00000	-23.00000	0.00000
-0.90575	-0.96099	0.51717	1	249	-25.00000	-23.00000	0.00000
-0.91701	-1.00340	0.52627	1	250	-24.00000	-23.00000	0.00000
-0.92739	-1.04755	0.53509	1	251	-23.00000	-23.00000	0.00000
-0.93678	-1.09346	0.54360	1	252	-22.00000	-23.00000	0.00000
-0.94502	-1.14113	0.55175	1	253	-21.00000	-23.00000	0.00000
-0.95195	-1.19055	0.55950	1	254	-20.00000	-23.00000	0.00000
-0.95741	-1.24171	0.56682	1	255	-19.00000	-23.00000	0.00000
-0.96122	-1.29456	0.57366	1	256	-18.00000	-23.00000	0.00000
-0.96320	-1.34904	0.58000	1	257	-17.00000	-23.00000	0.00000
-0.96316	-1.40507	0.58578	1	258	-16.00000	-23.00000	0.00000
-0.96090	-1.46256	0.59099	1	259	-15.00000	-23.00000	0.00000
-0.95621	-1.52137	0.59560	1				



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-0.94890	-1.58135	0.59958	1	260	-14.00000	-23.00000	0.00000
-0.93874	-1.64232	0.60292	1	261	-13.00000	-23.00000	0.00000
-0.92555	-1.70406	0.60562	1	262	-12.00000	-23.00000	0.00000
-0.90913	-1.76631	0.60767	1	263	-11.00000	-23.00000	0.00000
-0.88929	-1.82881	0.60908	1	264	-10.00000	-23.00000	0.00000
-0.86587	-1.89123	0.60987	1	265	-9.00000	-23.00000	0.00000
-0.83872	-1.95322	0.61007	1	266	-8.00000	-23.00000	0.00000
-0.80772	-2.01441	0.60971	1	267	-7.00000	-23.00000	0.00000
-0.77278	-2.07438	0.60883	1	268	-6.00000	-23.00000	0.00000
-0.73386	-2.13270	0.60750	1	269	-5.00000	-23.00000	0.00000
-0.69095	-2.18892	0.60577	1	270	-4.00000	-23.00000	0.00000
-0.64408	-2.24256	0.60372	1	271	-3.00000	-23.00000	0.00000
-0.59334	-2.29315	0.60141	1	272	-2.00000	-23.00000	0.00000
-0.53889	-2.34021	0.59894	1	273	-1.00000	-23.00000	0.00000
-0.48091	-2.38329	0.59637	1	274	0.00000	-23.00000	0.00000
-0.41966	-2.42192	0.59380	1	275	1.00000	-23.00000	0.00000
-0.35544	-2.45569	0.59130	1	276	2.00000	-23.00000	0.00000
-0.28863	-2.48422	0.58894	1	277	3.00000	-23.00000	0.00000
-0.21961	-2.50717	0.58679	1	278	4.00000	-23.00000	0.00000
-0.14885	-2.52427	0.58492	1	279	5.00000	-23.00000	0.00000
-0.07682	-2.53528	0.58337	1	280	6.00000	-23.00000	0.00000
-0.00402	-2.54007	0.58217	1	281	7.00000	-23.00000	0.00000
0.06902	-2.53854	0.58135	1	282	8.00000	-23.00000	0.00000
0.14177	-2.53069	0.58093	1	283	9.00000	-23.00000	0.00000
0.21370	-2.51658	0.58088	1	284	10.00000	-23.00000	0.00000
0.28429	-2.49635	0.58121	1	285	11.00000	-23.00000	0.00000
0.35306	-2.47021	0.58187	1	286	12.00000	-23.00000	0.00000
0.41953	-2.43841	0.58282	1	287	13.00000	-23.00000	0.00000
0.48327	-2.40131	0.58401	1	288	14.00000	-23.00000	0.00000
0.54390	-2.35928	0.58537	1	289	15.00000	-23.00000	0.00000
0.60110	-2.31275	0.58683	1	290	16.00000	-23.00000	0.00000
0.65458	-2.26219	0.58832	1	291	17.00000	-23.00000	0.00000
0.70412	-2.20808	0.58974	1	292	18.00000	-23.00000	0.00000
0.74956	-2.15094	0.59103	1	293	19.00000	-23.00000	0.00000
0.79080	-2.09126	0.59209	1	294	20.00000	-23.00000	0.00000
				295	21.00000	-23.00000	0.00000



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
0.82781	-2.02957	0.59286	1	296	22.00000	-23.00000	0.00000
0.86058	-1.96635	0.59325	1	297	23.00000	-23.00000	0.00000
0.88919	-1.90208	0.59321	1	298	24.00000	-23.00000	0.00000
0.91372	-1.83721	0.59268	1	299	25.00000	-23.00000	0.00000
0.93434	-1.77214	0.59162	1	300	26.00000	-23.00000	0.00000
0.95120	-1.70725	0.58998	1	301	27.00000	-23.00000	0.00000
0.96452	-1.64289	0.58774	1	302	28.00000	-23.00000	0.00000
0.97450	-1.57934	0.58489	1	303	29.00000	-23.00000	0.00000
0.98137	-1.51688	0.58141	1	304	30.00000	-23.00000	0.00000
0.98538	-1.45571	0.57732	1	305	-40.00000	-16.00000	0.00000
-0.87454	-0.52004	0.42827	1	306	-39.00000	-16.00000	0.00000
-0.89781	-0.54559	0.43947	1	307	-38.00000	-16.00000	0.00000
-0.92172	-0.57267	0.45075	1	308	-37.00000	-16.00000	0.00000
-0.94624	-0.60139	0.46208	1	309	-36.00000	-16.00000	0.00000
-0.97138	-0.63184	0.47343	1	310	-35.00000	-16.00000	0.00000
-0.99710	-0.66415	0.48477	1	311	-34.00000	-16.00000	0.00000
-1.02340	-0.69842	0.49604	1	312	-33.00000	-16.00000	0.00000
-1.05023	-0.73479	0.50720	1	313	-32.00000	-16.00000	0.00000
-1.07757	-0.77339	0.51820	1	314	-31.00000	-16.00000	0.00000
-1.10535	-0.81436	0.52897	1	315	-30.00000	-16.00000	0.00000
-1.13352	-0.85784	0.53945	1	316	-29.00000	-16.00000	0.00000
-1.16200	-0.90398	0.54957	1	317	-28.00000	-16.00000	0.00000
-1.19071	-0.95294	0.55925	1	318	-27.00000	-16.00000	0.00000
-1.21953	-1.00487	0.56840	1	319	-26.00000	-16.00000	0.00000
-1.24835	-1.05994	0.57694	1	320	-25.00000	-16.00000	0.00000
-1.27701	-1.11831	0.58477	1	321	-24.00000	-16.00000	0.00000
-1.30535	-1.18015	0.59180	1	322	-23.00000	-16.00000	0.00000
-1.33318	-1.24560	0.59791	1	323	-22.00000	-16.00000	0.00000
-1.36026	-1.31483	0.60299	1	324	-21.00000	-16.00000	0.00000
-1.38635	-1.38798	0.60694	1	325	-20.00000	-16.00000	0.00000
-1.41117	-1.46518	0.60964	1	326	-19.00000	-16.00000	0.00000
-1.43438	-1.54653	0.61098	1	327	-18.00000	-16.00000	0.00000
-1.45564	-1.63213	0.61084	1	328	-17.00000	-16.00000	0.00000
-1.47454	-1.72203	0.60912	1	329	-16.00000	-16.00000	0.00000
-1.49065	-1.81625	0.60573	1	330	-15.00000	-16.00000	0.00000
-1.50351	-1.91476	0.60056	1				



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-1.51259	-2.01747	0.59355	1	331	-14.00000	-16.00000	0.00000
-1.51735	-2.12424	0.58464	1	332	-13.00000	-16.00000	0.00000
-1.51721	-2.23484	0.57379	1	333	-12.00000	-16.00000	0.00000
-1.51157	-2.34895	0.56101	1	334	-11.00000	-16.00000	0.00000
-1.49980	-2.46618	0.54631	1	335	-10.00000	-16.00000	0.00000
-1.48127	-2.58599	0.52977	1	336	-9.00000	-16.00000	0.00000
-1.45536	-2.70776	0.51149	1	337	-8.00000	-16.00000	0.00000
-1.42147	-2.83073	0.49162	1	338	-7.00000	-16.00000	0.00000
-1.37904	-2.95399	0.47037	1	339	-6.00000	-16.00000	0.00000
-1.32759	-3.07653	0.44800	1	340	-5.00000	-16.00000	0.00000
-1.26674	-3.19719	0.42481	1	341	-4.00000	-16.00000	0.00000
-1.19621	-3.31472	0.40115	1	342	-3.00000	-16.00000	0.00000
-1.11591	-3.42776	0.37743	1	343	-2.00000	-16.00000	0.00000
-1.02589	-3.53489	0.35407	1	344	-1.00000	-16.00000	0.00000
-0.92642	-3.63466	0.33151	1	345	0.00000	-16.00000	0.00000
-0.81796	-3.72564	0.31022	1	346	1.00000	-16.00000	0.00000
-0.70119	-3.80644	0.29063	1	347	2.00000	-16.00000	0.00000
-0.57697	-3.87580	0.27317	1	348	3.00000	-16.00000	0.00000
-0.44636	-3.93257	0.25821	1	349	4.00000	-16.00000	0.00000
-0.31056	-3.97581	0.24609	1	350	5.00000	-16.00000	0.00000
-0.17091	-4.00474	0.23706	1	351	6.00000	-16.00000	0.00000
-0.02883	-4.01883	0.23134	1	352	7.00000	-16.00000	0.00000
0.11419	-4.01779	0.22904	1	353	8.00000	-16.00000	0.00000
0.25666	-4.00154	0.23021	1	354	9.00000	-16.00000	0.00000
0.39706	-3.97026	0.23481	1	355	10.00000	-16.00000	0.00000
0.53393	-3.92436	0.24276	1	356	11.00000	-16.00000	0.00000
0.66588	-3.86447	0.25386	1	357	12.00000	-16.00000	0.00000
0.79160	-3.79144	0.26787	1	358	13.00000	-16.00000	0.00000
0.90992	-3.70632	0.28448	1	359	14.00000	-16.00000	0.00000
1.01983	-3.61032	0.30332	1	360	15.00000	-16.00000	0.00000
1.12046	-3.50480	0.32397	1	361	16.00000	-16.00000	0.00000
1.21119	-3.39123	0.34600	1	362	17.00000	-16.00000	0.00000
1.29157	-3.27115	0.36894	1	363	18.00000	-16.00000	0.00000
1.36140	-3.14611	0.39231	1	364	19.00000	-16.00000	0.00000
1.42067	-3.01767	0.41566	1	365	20.00000	-16.00000	0.00000
				366	21.00000	-16.00000	0.00000



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517419		
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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
1.46959	-2.88728	0.43856	1	367	22.00000	-16.00000	0.00000
1.50853	-2.75633	0.46061	1	368	23.00000	-16.00000	0.00000
1.53804	-2.62604	0.48147	1	369	24.00000	-16.00000	0.00000
1.55874	-2.49750	0.50085	1	370	25.00000	-16.00000	0.00000
1.57138	-2.37162	0.51853	1	371	26.00000	-16.00000	0.00000
1.57671	-2.24917	0.53433	1	372	27.00000	-16.00000	0.00000
1.57553	-2.13072	0.54815	1	373	28.00000	-16.00000	0.00000
1.56862	-2.01673	0.55992	1	374	29.00000	-16.00000	0.00000
1.55674	-1.90750	0.56962	1	375	30.00000	-16.00000	0.00000
1.54060	-1.80322	0.57729	1	376	-40.00000	-9.00000	0.00000
-1.05201	-0.46851	0.47092	1	377	-39.00000	-9.00000	0.00000
-1.08691	-0.49473	0.48326	1	378	-38.00000	-9.00000	0.00000
-1.12332	-0.52283	0.49558	1	379	-37.00000	-9.00000	0.00000
-1.16129	-0.55296	0.50781	1	380	-36.00000	-9.00000	0.00000
-1.20089	-0.58531	0.51990	1	381	-35.00000	-9.00000	0.00000
-1.24219	-0.62007	0.53174	1	382	-34.00000	-9.00000	0.00000
-1.28524	-0.65743	0.54327	1	383	-33.00000	-9.00000	0.00000
-1.33011	-0.69763	0.55436	1	384	-32.00000	-9.00000	0.00000
-1.37684	-0.74092	0.56489	1	385	-31.00000	-9.00000	0.00000
-1.42549	-0.78757	0.57474	1	386	-30.00000	-9.00000	0.00000
-1.47609	-0.83788	0.58375	1	387	-29.00000	-9.00000	0.00000
-1.52868	-0.89217	0.59175	1	388	-28.00000	-9.00000	0.00000
-1.58327	-0.95078	0.59856	1	389	-27.00000	-9.00000	0.00000
-1.63986	-1.01412	0.60394	1	390	-26.00000	-9.00000	0.00000
-1.69844	-1.08258	0.60769	1	391	-25.00000	-9.00000	0.00000
-1.75894	-1.15661	0.60952	1	392	-24.00000	-9.00000	0.00000
-1.82129	-1.23671	0.60917	1	393	-23.00000	-9.00000	0.00000
-1.88537	-1.32337	0.60632	1	394	-22.00000	-9.00000	0.00000
-1.95101	-1.41716	0.60062	1	395	-21.00000	-9.00000	0.00000
-2.01798	-1.51865	0.59172	1	396	-20.00000	-9.00000	0.00000
-2.08597	-1.62845	0.57923	1	397	-19.00000	-9.00000	0.00000
-2.15463	-1.74719	0.56271	1	398	-18.00000	-9.00000	0.00000
-2.22348	-1.87553	0.54174	1	399	-17.00000	-9.00000	0.00000
-2.29195	-2.01412	0.51584	1	400	-16.00000	-9.00000	0.00000
-2.35935	-2.16361	0.48454	1	401	-15.00000	-9.00000	0.00000
-2.42484	-2.32462	0.44736	1				



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-2.48747	-2.49773	0.40379	1	402	-14.00000	-9.00000	0.00000
-2.54608	-2.68346	0.35338	1	403	-13.00000	-9.00000	0.00000
-2.59936	-2.88223	0.29566	1	404	-12.00000	-9.00000	0.00000
-2.64580	-3.09432	0.23024	1	405	-11.00000	-9.00000	0.00000
-2.68368	-3.31986	0.15678	1	406	-10.00000	-9.00000	0.00000
-2.71106	-3.55872	0.07505	1	407	-9.00000	-9.00000	0.00000
-2.72575	-3.81054	-0.01504	1	408	-8.00000	-9.00000	0.00000
-2.72534	-4.07454	-0.11337	1	409	-7.00000	-9.00000	0.00000
-2.70716	-4.34949	-0.21957	1	410	-6.00000	-9.00000	0.00000
-2.66839	-4.63357	-0.33294	1	411	-5.00000	-9.00000	0.00000
-2.60609	-4.92420	-0.45236	1	412	-4.00000	-9.00000	0.00000
-2.51744	-5.21796	-0.57625	1	413	-3.00000	-9.00000	0.00000
-2.39999	-5.51049	-0.70253	1	414	-2.00000	-9.00000	0.00000
-2.25197	-5.79659	-0.82868	1	415	-1.00000	-9.00000	0.00000
-2.07263	-6.07038	-0.95180	1	416	0.00000	-9.00000	0.00000
-1.86249	-6.32569	-1.06883	1	417	1.00000	-9.00000	0.00000
-1.62341	-6.55648	-1.17673	1	418	2.00000	-9.00000	0.00000
-1.35844	-6.75728	-1.27271	1	419	3.00000	-9.00000	0.00000
-1.07159	-6.92356	-1.35438	1	420	4.00000	-9.00000	0.00000
-0.76748	-7.05184	-1.41985	1	421	5.00000	-9.00000	0.00000
-0.45093	-7.13975	-1.46774	1	422	6.00000	-9.00000	0.00000
-0.12679	-7.18589	-1.49718	1	423	7.00000	-9.00000	0.00000
0.20023	-7.18971	-1.50771	1	424	8.00000	-9.00000	0.00000
0.52566	-7.15132	-1.49924	1	425	9.00000	-9.00000	0.00000
0.84518	-7.07140	-1.47197	1	426	10.00000	-9.00000	0.00000
1.15457	-6.95112	-1.42642	1	427	11.00000	-9.00000	0.00000
1.44971	-6.79221	-1.36336	1	428	12.00000	-9.00000	0.00000
1.72649	-6.59698	-1.28393	1	429	13.00000	-9.00000	0.00000
1.98086	-6.36846	-1.18962	1	430	14.00000	-9.00000	0.00000
2.20902	-6.11056	-1.08236	1	431	15.00000	-9.00000	0.00000
2.40762	-5.82803	-0.96450	1	432	16.00000	-9.00000	0.00000
2.57408	-5.52652	-0.83881	1	433	17.00000	-9.00000	0.00000
2.70691	-5.21228	-0.70835	1	434	18.00000	-9.00000	0.00000
2.80595	-4.89180	-0.57625	1	435	19.00000	-9.00000	0.00000
2.87240	-4.57138	-0.44558	1	436	20.00000	-9.00000	0.00000
				437	21.00000	-9.00000	0.00000



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
2.90869	-4.25665	-0.31906	1	438	22.00000	-9.00000	0.00000
2.91812	-3.95227	-0.19894	1	439	23.00000	-9.00000	0.00000
2.90452	-3.66172	-0.08691	1	440	24.00000	-9.00000	0.00000
2.87188	-3.38738	0.01589	1	441	25.00000	-9.00000	0.00000
2.82400	-3.13056	0.10888	1	442	26.00000	-9.00000	0.00000
2.76437	-2.89179	0.19187	1	443	27.00000	-9.00000	0.00000
2.69601	-2.67093	0.26504	1	444	28.00000	-9.00000	0.00000
2.62148	-2.46742	0.32880	1	445	29.00000	-9.00000	0.00000
2.54289	-2.28041	0.38369	1	446	30.00000	-9.00000	0.00000
2.46193	-2.10890	0.43039	1	447	-40.00000	-2.00000	0.00000
-1.21917	-0.36064	0.50350	1	448	-39.00000	-2.00000	0.00000
-1.26687	-0.38310	0.51634	1	449	-38.00000	-2.00000	0.00000
-1.31725	-0.40741	0.52897	1	450	-37.00000	-2.00000	0.00000
-1.37053	-0.43376	0.54128	1	451	-36.00000	-2.00000	0.00000
-1.42689	-0.46236	0.55313	1	452	-35.00000	-2.00000	0.00000
-1.48657	-0.49346	0.56438	1	453	-34.00000	-2.00000	0.00000
-1.54981	-0.52732	0.57485	1	454	-33.00000	-2.00000	0.00000
-1.61687	-0.56425	0.58434	1	455	-32.00000	-2.00000	0.00000
-1.68802	-0.60458	0.59261	1	456	-31.00000	-2.00000	0.00000
-1.76358	-0.64870	0.59938	1	457	-30.00000	-2.00000	0.00000
-1.84385	-0.69705	0.60435	1	458	-29.00000	-2.00000	0.00000
-1.92919	-0.75013	0.60714	1	459	-28.00000	-2.00000	0.00000
-2.01996	-0.80849	0.60733	1	460	-27.00000	-2.00000	0.00000
-2.11655	-0.87277	0.60443	1	461	-26.00000	-2.00000	0.00000
-2.21937	-0.94370	0.59788	1	462	-25.00000	-2.00000	0.00000
-2.32886	-1.02211	0.58704	1	463	-24.00000	-2.00000	0.00000
-2.44545	-1.10894	0.57116	1	464	-23.00000	-2.00000	0.00000
-2.56959	-1.20527	0.54939	1	465	-22.00000	-2.00000	0.00000
-2.70172	-1.31232	0.52074	1	466	-21.00000	-2.00000	0.00000
-2.84227	-1.43148	0.48408	1	467	-20.00000	-2.00000	0.00000
-2.99164	-1.56434	0.43812	1	468	-19.00000	-2.00000	0.00000
-3.15013	-1.71270	0.38139	1	469	-18.00000	-2.00000	0.00000
-3.31797	-1.87857	0.31219	1	470	-17.00000	-2.00000	0.00000
-3.49523	-2.06421	0.22862	1	471	-16.00000	-2.00000	0.00000
-3.68177	-2.27212	0.12850	1	472	-15.00000	-2.00000	0.00000
-3.87716	-2.50505	0.00943	1				



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Ref.		Name		Ref.	x	y	z
x	y	z					
-4.08060	-2.76594	-0.13129	1	473	-14.00000	-2.00000	0.00000
-4.29083	-3.05785	-0.29661	1	474	-13.00000	-2.00000	0.00000
-4.50603	-3.38390	-0.48971	1	475	-12.00000	-2.00000	0.00000
-4.72378	-3.74708	-0.71402	1	476	-11.00000	-2.00000	0.00000
-4.94101	-4.15009	-0.97311	1	477	-10.00000	-2.00000	0.00000
-5.15408	-4.59523	-1.27075	1	478	-9.00000	-2.00000	0.00000
-5.35888	-5.08427	-1.61084	1	479	-8.00000	-2.00000	0.00000
-5.55079	-5.61862	-1.99753	1	480	-7.00000	-2.00000	0.00000
-5.72437	-6.19964	-2.43523	1	481	-6.00000	-2.00000	0.00000
-5.87221	-6.82900	-2.92868	1	482	-5.00000	-2.00000	0.00000
-5.98262	-7.50855	-3.48252	1	483	-4.00000	-2.00000	0.00000
-6.03634	-8.23889	-4.10013	1	484	-3.00000	-2.00000	0.00000
-6.00399	-9.01542	-4.78084	1	485	-2.00000	-2.00000	0.00000
-5.84832	-9.82246	-5.51426	1	486	-1.00000	-2.00000	0.00000
-5.53597	-10.62884	-6.27138	1	487	0.00000	-2.00000	0.00000
-5.05526	-11.39145	-7.00232	1	488	1.00000	-2.00000	0.00000
-4.42546	-12.06801	-7.65848	1	489	2.00000	-2.00000	0.00000
-3.68721	-12.62981	-8.21251	1	490	3.00000	-2.00000	0.00000
-2.88428	-13.06519	-8.65460	1	491	4.00000	-2.00000	0.00000
-2.05134	-13.37497	-8.98578	1	492	5.00000	-2.00000	0.00000
-1.21120	-13.56603	-9.21281	1	493	6.00000	-2.00000	0.00000
-0.37711	-13.64678	-9.34229	1	494	7.00000	-2.00000	0.00000
0.44394	-13.62480	-9.37888	1	495	8.00000	-2.00000	0.00000
1.24850	-13.50599	-9.32722	1	496	9.00000	-2.00000	0.00000
2.03489	-13.29429	-9.19107	1	497	10.00000	-2.00000	0.00000
2.80191	-12.99161	-8.97167	1	498	11.00000	-2.00000	0.00000
3.54741	-12.59757	-8.66755	1	499	12.00000	-2.00000	0.00000
4.26613	-12.10962	-8.27500	1	500	13.00000	-2.00000	0.00000
4.94658	-11.52402	-7.79056	1	501	14.00000	-2.00000	0.00000
5.56748	-10.83863	-7.21239	1	502	15.00000	-2.00000	0.00000
6.09593	-10.05795	-6.54238	1	503	16.00000	-2.00000	0.00000
6.49146	-9.19962	-5.79288	1	504	17.00000	-2.00000	0.00000
6.71963	-8.29817	-4.99561	1	505	18.00000	-2.00000	0.00000
6.77039	-7.39988	-4.20249	1	506	19.00000	-2.00000	0.00000
6.66552	-6.54886	-3.46224	1	507	20.00000	-2.00000	0.00000
				508	21.00000	-2.00000	0.00000



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.	Name			Ref.	x	y	z
x	y	z					
6.44727	-5.77455	-2.80070	1	509	22.00000	-2.00000	0.00000
6.16015	-5.08892	-2.22504	1	510	23.00000	-2.00000	0.00000
5.83954	-4.49117	-1.73247	1	511	24.00000	-2.00000	0.00000
5.50934	-3.97383	-1.31561	1	512	25.00000	-2.00000	0.00000
5.18406	-3.52705	-0.96547	1	513	26.00000	-2.00000	0.00000
4.87178	-3.14091	-0.67289	1	514	27.00000	-2.00000	0.00000
4.57654	-2.80643	-0.42934	1	515	28.00000	-2.00000	0.00000
4.29999	-2.51580	-0.22722	1	516	29.00000	-2.00000	0.00000
4.04237	-2.26241	-0.05995	1	517	30.00000	-2.00000	0.00000
3.80316	-2.04071	0.07807	1	518	-40.00000	5.00000	0.00000
-1.34175	-0.19578	0.52322	1	519	-39.00000	5.00000	0.00000
-1.39995	-0.20892	0.53605	1	520	-38.00000	5.00000	0.00000
-1.46198	-0.22326	0.54846	1	521	-37.00000	5.00000	0.00000
-1.52817	-0.23893	0.56029	1	522	-36.00000	5.00000	0.00000
-1.59890	-0.25609	0.57134	1	523	-35.00000	5.00000	0.00000
-1.67459	-0.27492	0.58138	1	524	-34.00000	5.00000	0.00000
-1.75571	-0.29562	0.59015	1	525	-33.00000	5.00000	0.00000
-1.84277	-0.31842	0.59733	1	526	-32.00000	5.00000	0.00000
-1.93637	-0.34361	0.60253	1	527	-31.00000	5.00000	0.00000
-2.03716	-0.37149	0.60532	1	528	-30.00000	5.00000	0.00000
-2.14588	-0.40244	0.60517	1	529	-29.00000	5.00000	0.00000
-2.26337	-0.43688	0.60145	1	530	-28.00000	5.00000	0.00000
-2.39056	-0.47531	0.59343	1	531	-27.00000	5.00000	0.00000
-2.52854	-0.51833	0.58024	1	532	-26.00000	5.00000	0.00000
-2.67851	-0.56661	0.56082	1	533	-25.00000	5.00000	0.00000
-2.84185	-0.62100	0.53393	1	534	-24.00000	5.00000	0.00000
-3.02014	-0.68246	0.49808	1	535	-23.00000	5.00000	0.00000
-3.21519	-0.75217	0.45145	1	536	-22.00000	5.00000	0.00000
-3.42903	-0.83153	0.39189	1	537	-21.00000	5.00000	0.00000
-3.66403	-0.92225	0.31673	1	538	-20.00000	5.00000	0.00000
-3.92286	-1.02639	0.22278	1	539	-19.00000	5.00000	0.00000
-4.20855	-1.14646	0.10610	1	540	-18.00000	5.00000	0.00000
-4.52456	-1.28555	-0.03816	1	541	-17.00000	5.00000	0.00000
-4.87473	-1.44745	-0.21594	1	542	-16.00000	5.00000	0.00000
-5.26327	-1.63682	-0.43457	1	543	-15.00000	5.00000	0.00000
-5.69464	-1.85943	-0.70314	1				



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-6.17325	-2.12235	-1.03278	1	544	-14.00000	5.00000	0.00000
-6.70289	-2.43424	-1.43716	1	545	-13.00000	5.00000	0.00000
-7.28557	-2.80539	-1.93285	1	546	-12.00000	5.00000	0.00000
-7.91949	-3.24764	-2.53963	1	547	-11.00000	5.00000	0.00000
-8.59549	-3.77338	-3.28047	1	548	-10.00000	5.00000	0.00000
-9.29178	-4.39310	-4.18074	1	549	-9.00000	5.00000	0.00000
-9.96796	-5.11003	-5.26587	1	550	-8.00000	5.00000	0.00000
-10.56384	-5.91149	-6.55683	1	551	-7.00000	5.00000	0.00000
-11.01299	-6.76006	-8.05944	1	552	-6.00000	5.00000	0.00000
-11.27352	-7.59409	-9.70053	1	553	-5.00000	5.00000	0.00000
-11.34933	-8.34435	-11.37290	1	554	-4.00000	5.00000	0.00000
-11.26865	-8.95684	-13.08634	1	555	-3.00000	5.00000	0.00000
-11.03413	-9.40498	-14.86760	1	556	-2.00000	5.00000	0.00000
-10.59293	-9.69035	-16.79645	1	557	-1.00000	5.00000	0.00000
-9.86295	-9.83921	-19.30823	1	558	0.00000	5.00000	0.00000
-8.80680	-9.89333	-21.54765	1	559	1.00000	5.00000	0.00000
-7.47928	-9.89330	-23.06939	1	560	2.00000	5.00000	0.00000
-5.99144	-9.86397	-24.31958	1	561	3.00000	5.00000	0.00000
-4.44452	-9.81266	-25.22847	1	562	4.00000	5.00000	0.00000
-2.89983	-9.73579	-25.69468	1	563	5.00000	5.00000	0.00000
-1.38369	-9.62575	-26.03114	1	564	6.00000	5.00000	0.00000
0.09705	-9.47483	-26.26742	1	565	7.00000	5.00000	0.00000
1.54166	-9.27706	-26.13928	1	566	8.00000	5.00000	0.00000
2.94726	-9.02921	-25.74574	1	567	9.00000	5.00000	0.00000
4.30785	-8.73147	-25.19427	1	568	10.00000	5.00000	0.00000
5.62230	-8.38721	-24.38937	1	569	11.00000	5.00000	0.00000
6.90271	-8.00128	-23.60363	1	570	12.00000	5.00000	0.00000
8.16770	-7.57779	-22.52357	1	571	13.00000	5.00000	0.00000
9.42024	-7.11942	-21.17314	1	572	14.00000	5.00000	0.00000
10.62314	-6.62873	-19.63764	1	573	15.00000	5.00000	0.00000
11.68128	-6.11044	-17.84145	1	574	16.00000	5.00000	0.00000
12.44628	-5.57335	-15.71722	1	575	17.00000	5.00000	0.00000
12.77146	-5.03067	-12.76428	1	576	18.00000	5.00000	0.00000
12.60603	-4.49832	-10.09592	1	577	19.00000	5.00000	0.00000
12.03715	-3.99179	-8.02282	1	578	20.00000	5.00000	0.00000
				579	21.00000	5.00000	0.00000



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
11.22730	-3.52315	-6.33493	1	580	22.00000	5.00000	0.00000
10.32560	-3.09955	-4.96660	1	581	23.00000	5.00000	0.00000
9.42922	-2.72336	-3.86300	1	582	24.00000	5.00000	0.00000
8.58819	-2.39341	-2.97506	1	583	25.00000	5.00000	0.00000
7.82240	-2.10630	-2.26105	1	584	26.00000	5.00000	0.00000
7.13559	-1.85762	-1.68659	1	585	27.00000	5.00000	0.00000
6.52390	-1.64269	-1.22391	1	586	28.00000	5.00000	0.00000
5.98046	-1.45697	-0.85078	1	587	29.00000	5.00000	0.00000
5.49759	-1.29634	-0.54951	1	588	30.00000	5.00000	0.00000
5.06788	-1.15716	-0.30607	1	589	-40.00000	12.00000	0.00000
-1.38632	0.00610	0.52924	1	590	-39.00000	12.00000	0.00000
-1.44863	0.00633	0.54195	1	591	-38.00000	12.00000	0.00000
-1.51524	0.00656	0.55414	1	592	-37.00000	12.00000	0.00000
-1.58657	0.00680	0.56563	1	593	-36.00000	12.00000	0.00000
-1.66306	0.00706	0.57619	1	594	-35.00000	12.00000	0.00000
-1.74523	0.00731	0.58555	1	595	-34.00000	12.00000	0.00000
-1.83366	0.00758	0.59341	1	596	-33.00000	12.00000	0.00000
-1.92900	0.00785	0.59938	1	597	-32.00000	12.00000	0.00000
-2.03199	0.00814	0.60303	1	598	-31.00000	12.00000	0.00000
-2.14346	0.00842	0.60383	1	599	-30.00000	12.00000	0.00000
-2.26438	0.00872	0.60115	1	600	-29.00000	12.00000	0.00000
-2.39585	0.00903	0.59423	1	601	-28.00000	12.00000	0.00000
-2.53911	0.00935	0.58218	1	602	-27.00000	12.00000	0.00000
-2.69563	0.00968	0.56392	1	603	-26.00000	12.00000	0.00000
-2.86708	0.01003	0.53813	1	604	-25.00000	12.00000	0.00000
-3.05540	0.01041	0.50326	1	605	-24.00000	12.00000	0.00000
-3.26288	0.01084	0.45737	1	606	-23.00000	12.00000	0.00000
-3.49217	0.01132	0.39812	1	607	-22.00000	12.00000	0.00000
-3.74639	0.01191	0.32264	1	608	-21.00000	12.00000	0.00000
-4.02921	0.01264	0.22735	1	609	-20.00000	12.00000	0.00000
-4.34498	0.01360	0.10782	1	610	-19.00000	12.00000	0.00000
-4.69883	0.01490	-0.04150	1	611	-18.00000	12.00000	0.00000
-5.09684	0.01670	-0.22761	1	612	-17.00000	12.00000	0.00000
-5.54618	0.01927	-0.45938	1	613	-16.00000	12.00000	0.00000
-6.05523	0.02296	-0.74810	1	614	-15.00000	12.00000	0.00000
-6.63361	0.02831	-1.10821	1				



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-7.29198	0.03606	-1.55820	1	615	-14.00000	12.00000	0.00000
-8.04129	0.04720	-2.12181	1	616	-13.00000	12.00000	0.00000
-8.89086	0.06301	-2.82942	1	617	-12.00000	12.00000	0.00000
-9.84415	0.08490	-3.71968	1	618	-11.00000	12.00000	0.00000
-10.89029	0.11399	-4.84087	1	619	-10.00000	12.00000	0.00000
-11.98917	0.15021	-6.25083	1	620	-9.00000	12.00000	0.00000
-13.05098	0.19074	-8.01330	1	621	-8.00000	12.00000	0.00000
-13.92385	0.22825	-10.19253	1	622	-7.00000	12.00000	0.00000
-14.42336	0.25061	-12.90393	1	623	-6.00000	12.00000	0.00000
-14.42330	0.24436	-16.05610	1	624	-5.00000	12.00000	0.00000
-13.93765	0.20244	-18.56040	1	625	-4.00000	12.00000	0.00000
-13.09237	0.13162	-20.87793	1	626	-3.00000	12.00000	0.00000
-12.02236	0.05319	-22.75724	1	627	-2.00000	12.00000	0.00000
-10.80611	-0.00551	-24.42309	1	628	-1.00000	12.00000	0.00000
-9.47123	-0.02331	-26.17183	1	629	0.00000	12.00000	0.00000
-8.03156	0.00780	-27.44357	1	630	1.00000	12.00000	0.00000
-6.51121	0.08414	-28.40906	1	631	2.00000	12.00000	0.00000
-4.94226	0.19631	-29.22808	1	632	3.00000	12.00000	0.00000
-3.35261	0.33433	-29.79766	1	633	4.00000	12.00000	0.00000
-1.76039	0.48984	-29.99247	1	634	5.00000	12.00000	0.00000
-0.17590	0.65622	-30.08053	1	635	6.00000	12.00000	0.00000
1.39354	0.82798	-30.07104	1	636	7.00000	12.00000	0.00000
2.93822	0.99996	-29.70394	1	637	8.00000	12.00000	0.00000
4.44249	1.16679	-29.07088	1	638	9.00000	12.00000	0.00000
5.88721	1.32250	-28.26571	1	639	10.00000	12.00000	0.00000
7.26136	1.46041	-27.19724	1	640	11.00000	12.00000	0.00000
8.57312	1.57336	-26.14354	1	641	12.00000	12.00000	0.00000
9.84289	1.65435	-24.80695	1	642	13.00000	12.00000	0.00000
11.07807	1.69761	-23.21080	1	643	14.00000	12.00000	0.00000
12.24525	1.69986	-21.43517	1	644	15.00000	12.00000	0.00000
13.25099	1.66136	-19.40710	1	645	16.00000	12.00000	0.00000
13.94674	1.58614	-17.06187	1	646	17.00000	12.00000	0.00000
14.18550	1.48159	-13.90414	1	647	18.00000	12.00000	0.00000
13.91788	1.35711	-11.05132	1	648	19.00000	12.00000	0.00000
13.23503	1.22253	-8.81120	1	649	20.00000	12.00000	0.00000
				650	21.00000	12.00000	0.00000



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Ref.		Name		Ref.	x	y	z
x	y	z					
12.30538	1.08657	-6.97739	1	651	22.00000	12.00000	0.00000
11.28423	0.95591	-5.48525	1	652	23.00000	12.00000	0.00000
10.27391	0.83492	-4.27886	1	653	24.00000	12.00000	0.00000
9.32783	0.72590	-3.30689	1	654	25.00000	12.00000	0.00000
8.46758	0.62959	-2.52486	1	655	26.00000	12.00000	0.00000
7.69733	0.54567	-1.89571	1	656	27.00000	12.00000	0.00000
7.01283	0.47321	-1.38922	1	657	28.00000	12.00000	0.00000
6.40633	0.41101	-0.98109	1	658	29.00000	12.00000	0.00000
5.86911	0.35779	-0.65188	1	659	30.00000	12.00000	0.00000
5.39268	0.31231	-0.38614	1	660	-40.00000	19.00000	0.00000
-1.33864	0.20766	0.52162	1	661	-39.00000	19.00000	0.00000
-1.39673	0.22126	0.53433	1	662	-38.00000	19.00000	0.00000
-1.45864	0.23606	0.54661	1	663	-37.00000	19.00000	0.00000
-1.52472	0.25222	0.55829	1	664	-36.00000	19.00000	0.00000
-1.59535	0.26987	0.56917	1	665	-35.00000	19.00000	0.00000
-1.67093	0.28921	0.57903	1	666	-34.00000	19.00000	0.00000
-1.75195	0.31044	0.58759	1	667	-33.00000	19.00000	0.00000
-1.83892	0.33379	0.59453	1	668	-32.00000	19.00000	0.00000
-1.93244	0.35953	0.59948	1	669	-31.00000	19.00000	0.00000
-2.03315	0.38797	0.60198	1	670	-30.00000	19.00000	0.00000
-2.14181	0.41947	0.60150	1	671	-29.00000	19.00000	0.00000
-2.25925	0.45447	0.59742	1	672	-28.00000	19.00000	0.00000
-2.38642	0.49344	0.58899	1	673	-27.00000	19.00000	0.00000
-2.52438	0.53696	0.57534	1	674	-26.00000	19.00000	0.00000
-2.67434	0.58571	0.55542	1	675	-25.00000	19.00000	0.00000
-2.83768	0.64049	0.52797	1	676	-24.00000	19.00000	0.00000
-3.01598	0.70223	0.49150	1	677	-23.00000	19.00000	0.00000
-3.21100	0.77205	0.44422	1	678	-22.00000	19.00000	0.00000
-3.42479	0.85130	0.38397	1	679	-21.00000	19.00000	0.00000
-3.65964	0.94156	0.30813	1	680	-20.00000	19.00000	0.00000
-3.91818	1.04475	0.21352	1	681	-19.00000	19.00000	0.00000
-4.20339	1.16315	0.09630	1	682	-18.00000	19.00000	0.00000
-4.51860	1.29952	-0.04828	1	683	-17.00000	19.00000	0.00000
-4.86753	1.45716	-0.22598	1	684	-16.00000	19.00000	0.00000
-5.25427	1.64003	-0.44392	1	685	-15.00000	19.00000	0.00000
-5.68316	1.85283	-0.71080	1				



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Ref.		Name		Ref.	x	y	z
x	y	z					
-6.15865	2.10107	-1.03730	1	686	-14.00000	19.00000	0.00000
-6.68489	2.39106	-1.43642	1	687	-13.00000	19.00000	0.00000
-7.26512	2.72976	-1.92391	1	688	-12.00000	19.00000	0.00000
-7.90056	3.12423	-2.51860	1	689	-11.00000	19.00000	0.00000
-8.58873	3.58058	-3.24261	1	690	-10.00000	19.00000	0.00000
-9.32098	4.10194	-4.12137	1	691	-9.00000	19.00000	0.00000
-10.07916	4.68553	-5.18321	1	692	-8.00000	19.00000	0.00000
-10.83115	5.31921	-6.45875	1	693	-7.00000	19.00000	0.00000
-11.52407	5.97980	-7.98052	1	694	-6.00000	19.00000	0.00000
-12.07352	6.63597	-9.78383	1	695	-5.00000	19.00000	0.00000
-12.35449	7.25634	-11.91322	1	696	-4.00000	19.00000	0.00000
-12.22010	7.81881	-14.48724	1	697	-3.00000	19.00000	0.00000
-11.57360	8.31464	-17.57056	1	698	-2.00000	19.00000	0.00000
-10.44408	8.74575	-19.88362	1	699	-1.00000	19.00000	0.00000
-8.97050	9.11899	-21.86214	1	700	0.00000	19.00000	0.00000
-7.31042	9.44258	-23.16649	1	701	1.00000	19.00000	0.00000
-5.57444	9.72622	-24.11925	1	702	2.00000	19.00000	0.00000
-3.81983	9.98264	-24.84492	1	703	3.00000	19.00000	0.00000
-2.07361	10.22751	-25.23788	1	704	4.00000	19.00000	0.00000
-0.35697	10.47533	-25.17022	1	705	5.00000	19.00000	0.00000
1.30114	10.73172	-24.93574	1	706	6.00000	19.00000	0.00000
2.86481	10.98577	-24.56683	1	707	7.00000	19.00000	0.00000
4.30304	11.20957	-23.80866	1	708	8.00000	19.00000	0.00000
5.59945	11.36828	-22.76453	1	709	9.00000	19.00000	0.00000
6.74785	11.43449	-21.57658	1	710	10.00000	19.00000	0.00000
7.74022	11.39435	-20.14765	1	711	11.00000	19.00000	0.00000
8.56439	11.24124	-18.65100	1	712	12.00000	19.00000	0.00000
9.21873	10.96559	-16.48451	1	713	13.00000	19.00000	0.00000
9.72695	10.55338	-14.82600	1	714	14.00000	19.00000	0.00000
10.12225	9.99422	-13.29220	1	715	15.00000	19.00000	0.00000
10.40918	9.29071	-11.77201	1	716	16.00000	19.00000	0.00000
10.54736	8.46586	-10.19276	1	717	17.00000	19.00000	0.00000
10.47916	7.56715	-8.43437	1	718	18.00000	19.00000	0.00000
10.18240	6.65877	-6.79025	1	719	19.00000	19.00000	0.00000
9.69671	5.80058	-5.45033	1	720	20.00000	19.00000	0.00000
				721	21.00000	19.00000	0.00000



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Ref.	Name			Ref.	x	y	z
x	y	z					
9.09804	5.02991	-4.33995	1	722	22.00000	19.00000	0.00000
8.45803	4.35949	-3.42219	1	723	23.00000	19.00000	0.00000
7.82507	3.78593	-2.66674	1	724	24.00000	19.00000	0.00000
7.22536	3.29862	-2.04667	1	725	25.00000	19.00000	0.00000
6.67033	2.88512	-1.53857	1	726	26.00000	19.00000	0.00000
6.16302	2.53366	-1.12260	1	727	27.00000	19.00000	0.00000
5.70224	2.23398	-0.78220	1	728	28.00000	19.00000	0.00000
5.28488	1.97748	-0.50370	1	729	29.00000	19.00000	0.00000
4.90712	1.75703	-0.27596	1	730	30.00000	19.00000	0.00000
4.56503	1.56679	-0.08988	1	731	-40.00000	26.00000	0.00000
-1.21303	0.37156	0.50053	1	732	-39.00000	26.00000	0.00000
-1.26048	0.39445	0.51316	1	733	-38.00000	26.00000	0.00000
-1.31062	0.41921	0.52555	1	734	-37.00000	26.00000	0.00000
-1.36365	0.44603	0.53760	1	735	-36.00000	26.00000	0.00000
-1.41976	0.47514	0.54916	1	736	-35.00000	26.00000	0.00000
-1.47920	0.50677	0.56009	1	737	-34.00000	26.00000	0.00000
-1.54221	0.54118	0.57020	1	738	-33.00000	26.00000	0.00000
-1.60904	0.57869	0.57928	1	739	-32.00000	26.00000	0.00000
-1.67999	0.61964	0.58710	1	740	-31.00000	26.00000	0.00000
-1.75537	0.66441	0.59336	1	741	-30.00000	26.00000	0.00000
-1.83551	0.71345	0.59774	1	742	-29.00000	26.00000	0.00000
-1.92076	0.76724	0.59986	1	743	-28.00000	26.00000	0.00000
-2.01152	0.82636	0.59928	1	744	-27.00000	26.00000	0.00000
-2.10819	0.89144	0.59550	1	745	-26.00000	26.00000	0.00000
-2.21122	0.96321	0.58793	1	746	-25.00000	26.00000	0.00000
-2.32108	1.04251	0.57589	1	747	-24.00000	26.00000	0.00000
-2.43825	1.13029	0.55861	1	748	-23.00000	26.00000	0.00000
-2.56326	1.22762	0.53516	1	749	-22.00000	26.00000	0.00000
-2.69663	1.33575	0.50451	1	750	-21.00000	26.00000	0.00000
-2.83893	1.45608	0.46544	1	751	-20.00000	26.00000	0.00000
-2.99069	1.59024	0.41652	1	752	-19.00000	26.00000	0.00000
-3.15245	1.74007	0.35611	1	753	-18.00000	26.00000	0.00000
-3.32472	1.90770	0.28231	1	754	-17.00000	26.00000	0.00000
-3.50793	2.09552	0.19287	1	755	-16.00000	26.00000	0.00000
-3.70243	2.30632	0.08520	1	756	-15.00000	26.00000	0.00000
-3.90840	2.54324	-0.04373	1				



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Ref.		Name		Ref.	x	y	z
x	y	z					
-4.12580	2.80989	-0.19746	1	757	-14.00000	26.00000	0.00000
-4.35422	3.11037	-0.38010	1	758	-13.00000	26.00000	0.00000
-4.59272	3.44940	-0.59639	1	759	-12.00000	26.00000	0.00000
-4.83955	3.83232	-0.85175	1	760	-11.00000	26.00000	0.00000
-5.09163	4.26521	-1.15228	1	761	-10.00000	26.00000	0.00000
-5.34381	4.75479	-1.50461	1	762	-9.00000	26.00000	0.00000
-5.58766	5.30820	-1.91554	1	763	-8.00000	26.00000	0.00000
-5.80963	5.93215	-2.39137	1	764	-7.00000	26.00000	0.00000
-5.98900	6.63108	-2.93643	1	765	-6.00000	26.00000	0.00000
-6.09634	7.40367	-3.55068	1	766	-5.00000	26.00000	0.00000
-6.09514	8.23801	-4.22588	1	767	-4.00000	26.00000	0.00000
-5.94945	9.10736	-4.94110	1	768	-3.00000	26.00000	0.00000
-5.63678	9.97134	-5.66180	1	769	-2.00000	26.00000	0.00000
-5.15792	10.78493	-6.34836	1	770	-1.00000	26.00000	0.00000
-4.53363	11.51048	-6.96940	1	771	0.00000	26.00000	0.00000
-3.78987	12.12401	-7.50753	1	772	1.00000	26.00000	0.00000
-2.94349	12.61206	-7.95654	1	773	2.00000	26.00000	0.00000
-1.99995	12.96291	-8.31177	1	774	3.00000	26.00000	0.00000
-0.96833	13.15983	-8.54156	1	775	4.00000	26.00000	0.00000
0.11531	13.18388	-8.57043	1	776	5.00000	26.00000	0.00000
1.18013	13.02667	-8.36194	1	777	6.00000	26.00000	0.00000
2.14155	12.70253	-7.93174	1	778	7.00000	26.00000	0.00000
2.93775	12.24885	-7.35110	1	779	8.00000	26.00000	0.00000
3.55414	11.71219	-6.72575	1	780	9.00000	26.00000	0.00000
4.01590	11.13081	-6.10770	1	781	10.00000	26.00000	0.00000
4.36092	10.52753	-5.51231	1	782	11.00000	26.00000	0.00000
4.61985	9.91370	-4.94396	1	783	12.00000	26.00000	0.00000
4.81158	9.29581	-4.40394	1	784	13.00000	26.00000	0.00000
4.94696	8.67931	-3.89303	1	785	14.00000	26.00000	0.00000
5.03290	8.06945	-3.41189	1	786	15.00000	26.00000	0.00000
5.07444	7.47099	-2.96093	1	787	16.00000	26.00000	0.00000
5.07541	6.88834	-2.54030	1	788	17.00000	26.00000	0.00000
5.03888	6.32594	-2.15017	1	789	18.00000	26.00000	0.00000
4.96803	5.78842	-1.79083	1	790	19.00000	26.00000	0.00000
4.86673	5.28024	-1.46261	1	791	20.00000	26.00000	0.00000
				792	21.00000	26.00000	0.00000



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Ref.	Name			Ref.	x	y	z
x	y	z					
4.73977	4.80516	-1.16559	1	793	22.00000	26.00000	0.00000
4.59261	4.36564	-0.89941	1	794	23.00000	26.00000	0.00000
4.43087	3.96270	-0.66316	1	795	24.00000	26.00000	0.00000
4.25979	3.59598	-0.45536	1	796	25.00000	26.00000	0.00000
4.08389	3.26407	-0.27412	1	797	26.00000	26.00000	0.00000
3.90689	2.96482	-0.11728	1	798	27.00000	26.00000	0.00000
3.73162	2.69570	0.01747	1	799	28.00000	26.00000	0.00000
3.56019	2.45403	0.13241	1	800	29.00000	26.00000	0.00000
3.39407	2.23712	0.22976	1	801	30.00000	26.00000	0.00000
3.23424	2.04244	0.31158	1	802	-40.00000	33.00000	0.00000
-1.04312	0.47770	0.46698	1	803	-39.00000	33.00000	0.00000
-1.07762	0.50428	0.47906	1	804	-38.00000	33.00000	0.00000
-1.11361	0.53277	0.49109	1	805	-37.00000	33.00000	0.00000
-1.15115	0.56332	0.50302	1	806	-36.00000	33.00000	0.00000
-1.19030	0.59611	0.51477	1	807	-35.00000	33.00000	0.00000
-1.23112	0.63134	0.52625	1	808	-34.00000	33.00000	0.00000
-1.27369	0.66921	0.53737	1	809	-33.00000	33.00000	0.00000
-1.31804	0.70996	0.54801	1	810	-32.00000	33.00000	0.00000
-1.36425	0.75386	0.55805	1	811	-31.00000	33.00000	0.00000
-1.41236	0.80116	0.56735	1	812	-30.00000	33.00000	0.00000
-1.46242	0.85219	0.57575	1	813	-29.00000	33.00000	0.00000
-1.51445	0.90727	0.58307	1	814	-28.00000	33.00000	0.00000
-1.56847	0.96678	0.58911	1	815	-27.00000	33.00000	0.00000
-1.62448	1.03110	0.59363	1	816	-26.00000	33.00000	0.00000
-1.68247	1.10068	0.59641	1	817	-25.00000	33.00000	0.00000
-1.74239	1.17599	0.59715	1	818	-24.00000	33.00000	0.00000
-1.80416	1.25754	0.59555	1	819	-23.00000	33.00000	0.00000
-1.86766	1.34588	0.59127	1	820	-22.00000	33.00000	0.00000
-1.93271	1.44162	0.58396	1	821	-21.00000	33.00000	0.00000
-1.99907	1.54540	0.57319	1	822	-20.00000	33.00000	0.00000
-2.06644	1.65789	0.55855	1	823	-19.00000	33.00000	0.00000
-2.13441	1.77984	0.53956	1	824	-18.00000	33.00000	0.00000
-2.20247	1.91198	0.51573	1	825	-17.00000	33.00000	0.00000
-2.26995	2.05512	0.48654	1	826	-16.00000	33.00000	0.00000
-2.33606	2.21003	0.45145	1	827	-15.00000	33.00000	0.00000
-2.39980	2.37752	0.40990	1				



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517419		
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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-2.45992	2.55831	0.36135	1	828	-14.00000	33.00000	0.00000
-2.51494	2.75309	0.30531	1	829	-13.00000	33.00000	0.00000
-2.56307	2.96237	0.24134	1	830	-12.00000	33.00000	0.00000
-2.60218	3.18646	0.16909	1	831	-11.00000	33.00000	0.00000
-2.62979	3.42533	0.08840	1	832	-10.00000	33.00000	0.00000
-2.64305	3.67853	-0.00065	1	833	-9.00000	33.00000	0.00000
-2.63879	3.94496	-0.09769	1	834	-8.00000	33.00000	0.00000
-2.61362	4.22281	-0.20194	1	835	-7.00000	33.00000	0.00000
-2.56406	4.50931	-0.31216	1	836	-6.00000	33.00000	0.00000
-2.48682	4.80072	-0.42661	1	837	-5.00000	33.00000	0.00000
-2.37905	5.09224	-0.54302	1	838	-4.00000	33.00000	0.00000
-2.23872	5.37817	-0.65864	1	839	-3.00000	33.00000	0.00000
-2.06481	5.65209	-0.77037	1	840	-2.00000	33.00000	0.00000
-1.85761	5.90719	-0.87487	1	841	-1.00000	33.00000	0.00000
-1.61874	6.13664	-0.96874	1	842	0.00000	33.00000	0.00000
-1.35116	6.33388	-1.04871	1	843	1.00000	33.00000	0.00000
-1.05919	6.49299	-1.11180	1	844	2.00000	33.00000	0.00000
-0.74841	6.60896	-1.15553	1	845	3.00000	33.00000	0.00000
-0.42560	6.67815	-1.17812	1	846	4.00000	33.00000	0.00000
-0.09838	6.69864	-1.17870	1	847	5.00000	33.00000	0.00000
0.22523	6.67062	-1.15749	1	848	6.00000	33.00000	0.00000
0.53754	6.59645	-1.11579	1	849	7.00000	33.00000	0.00000
0.83195	6.48045	-1.05591	1	850	8.00000	33.00000	0.00000
1.10349	6.32832	-0.98083	1	851	9.00000	33.00000	0.00000
1.34903	6.14641	-0.89390	1	852	10.00000	33.00000	0.00000
1.56713	5.94104	-0.79846	1	853	11.00000	33.00000	0.00000
1.75769	5.71801	-0.69759	1	854	12.00000	33.00000	0.00000
1.92150	5.48239	-0.59396	1	855	13.00000	33.00000	0.00000
2.05987	5.23850	-0.48979	1	856	14.00000	33.00000	0.00000
2.17437	4.98992	-0.38689	1	857	15.00000	33.00000	0.00000
2.26664	4.73967	-0.28664	1	858	16.00000	33.00000	0.00000
2.33834	4.49031	-0.19016	1	859	17.00000	33.00000	0.00000
2.39114	4.24401	-0.09828	1	860	18.00000	33.00000	0.00000
2.42667	4.00261	-0.01163	1	861	19.00000	33.00000	0.00000
2.44657	3.76768	0.06934	1	862	20.00000	33.00000	0.00000
				863	21.00000	33.00000	0.00000



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
2.45246	3.54052	0.14431	1	864	22.00000	33.00000	0.00000
2.44593	3.32215	0.21309	1	865	23.00000	33.00000	0.00000
2.42856	3.11336	0.27563	1	866	24.00000	33.00000	0.00000
2.40187	2.91473	0.33195	1	867	25.00000	33.00000	0.00000
2.36729	2.72657	0.38215	1	868	26.00000	33.00000	0.00000
2.32618	2.54903	0.42643	1	869	27.00000	33.00000	0.00000
2.27978	2.38208	0.46503	1	870	28.00000	33.00000	0.00000
2.22921	2.22555	0.49824	1	871	29.00000	33.00000	0.00000
2.17549	2.07914	0.52639	1	872	30.00000	33.00000	0.00000
2.11948	1.94249	0.54983	1	873	-40.00000	40.00000	0.00000
-0.86363	0.52679	0.42377	1	874	-39.00000	40.00000	0.00000
-0.88638	0.55256	0.43470	1	875	-38.00000	40.00000	0.00000
-0.90973	0.57988	0.44570	1	876	-37.00000	40.00000	0.00000
-0.93366	0.60884	0.45674	1	877	-36.00000	40.00000	0.00000
-0.95817	0.63955	0.46777	1	878	-35.00000	40.00000	0.00000
-0.98323	0.67214	0.47876	1	879	-34.00000	40.00000	0.00000
-1.00882	0.70671	0.48966	1	880	-33.00000	40.00000	0.00000
-1.03490	0.74340	0.50043	1	881	-32.00000	40.00000	0.00000
-1.06142	0.78234	0.51099	1	882	-31.00000	40.00000	0.00000
-1.08834	0.82368	0.52130	1	883	-30.00000	40.00000	0.00000
-1.11558	0.86755	0.53128	1	884	-29.00000	40.00000	0.00000
-1.14306	0.91412	0.54086	1	885	-28.00000	40.00000	0.00000
-1.17069	0.96355	0.54996	1	886	-27.00000	40.00000	0.00000
-1.19834	1.01599	0.55849	1	887	-26.00000	40.00000	0.00000
-1.22588	1.07161	0.56636	1	888	-25.00000	40.00000	0.00000
-1.25315	1.13058	0.57347	1	889	-24.00000	40.00000	0.00000
-1.27996	1.19307	0.57972	1	890	-23.00000	40.00000	0.00000
-1.30609	1.25924	0.58500	1	891	-22.00000	40.00000	0.00000
-1.33130	1.32924	0.58920	1	892	-21.00000	40.00000	0.00000
-1.35529	1.40322	0.59221	1	893	-20.00000	40.00000	0.00000
-1.37775	1.48131	0.59392	1	894	-19.00000	40.00000	0.00000
-1.39831	1.56360	0.59421	1	895	-18.00000	40.00000	0.00000
-1.41656	1.65018	0.59299	1	896	-17.00000	40.00000	0.00000
-1.43205	1.74107	0.59016	1	897	-16.00000	40.00000	0.00000
-1.44427	1.83626	0.58564	1	898	-15.00000	40.00000	0.00000
-1.45267	1.93567	0.57936	1				



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Ref.		Name		Ref.	x	y	z
x	y	z					
-1.45666	2.03916	0.57128	1	899	-14.00000	40.00000	0.00000
-1.45560	2.14647	0.56139	1	900	-13.00000	40.00000	0.00000
-1.44883	2.25727	0.54971	1	901	-12.00000	40.00000	0.00000
-1.43567	2.37109	0.53629	1	902	-11.00000	40.00000	0.00000
-1.41543	2.48734	0.52125	1	903	-10.00000	40.00000	0.00000
-1.38743	2.60529	0.50474	1	904	-9.00000	40.00000	0.00000
-1.35104	2.72404	0.48696	1	905	-8.00000	40.00000	0.00000
-1.30570	2.84257	0.46819	1	906	-7.00000	40.00000	0.00000
-1.25095	2.95969	0.44875	1	907	-6.00000	40.00000	0.00000
-1.18648	3.07408	0.42901	1	908	-5.00000	40.00000	0.00000
-1.11214	3.18431	0.40937	1	909	-4.00000	40.00000	0.00000
-1.02796	3.28888	0.39030	1	910	-3.00000	40.00000	0.00000
-0.93424	3.38625	0.37225	1	911	-2.00000	40.00000	0.00000
-0.83147	3.47489	0.35570	1	912	-1.00000	40.00000	0.00000
-0.72042	3.55335	0.34108	1	913	0.00000	40.00000	0.00000
-0.60207	3.62029	0.32881	1	914	1.00000	40.00000	0.00000
-0.47765	3.67456	0.31925	1	915	2.00000	40.00000	0.00000
-0.34854	3.71524	0.31268	1	916	3.00000	40.00000	0.00000
-0.21627	3.74167	0.30927	1	917	4.00000	40.00000	0.00000
-0.08246	3.75350	0.30913	1	918	5.00000	40.00000	0.00000
0.05127	3.75068	0.31224	1	919	6.00000	40.00000	0.00000
0.18330	3.73349	0.31848	1	920	7.00000	40.00000	0.00000
0.31215	3.70246	0.32765	1	921	8.00000	40.00000	0.00000
0.43646	3.65840	0.33946	1	922	9.00000	40.00000	0.00000
0.55505	3.60229	0.35356	1	923	10.00000	40.00000	0.00000
0.66695	3.53530	0.36956	1	924	11.00000	40.00000	0.00000
0.77140	3.45866	0.38703	1	925	12.00000	40.00000	0.00000
0.86786	3.37367	0.40557	1	926	13.00000	40.00000	0.00000
0.95594	3.28162	0.42475	1	927	14.00000	40.00000	0.00000
1.03548	3.18379	0.44420	1	928	15.00000	40.00000	0.00000
1.10643	3.08138	0.46354	1	929	16.00000	40.00000	0.00000
1.16889	2.97556	0.48247	1	930	17.00000	40.00000	0.00000
1.22304	2.86739	0.50069	1	931	18.00000	40.00000	0.00000
1.26919	2.75784	0.51797	1	932	19.00000	40.00000	0.00000
1.30767	2.64779	0.53410	1	933	20.00000	40.00000	0.00000
				934	21.00000	40.00000	0.00000



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Ref.		Name		Ref.	x	y	z
x	y	z					
1.33891	2.53803	0.54892	1	935	22.00000	40.00000	0.00000
1.36334	2.42926	0.56230	1	936	23.00000	40.00000	0.00000
1.38145	2.32207	0.57415	1	937	24.00000	40.00000	0.00000
1.39372	2.21699	0.58440	1	938	25.00000	40.00000	0.00000
1.40065	2.11443	0.59304	1	939	26.00000	40.00000	0.00000
1.40274	2.01475	0.60004	1	940	27.00000	40.00000	0.00000
1.40047	1.91823	0.60542	1	941	28.00000	40.00000	0.00000
1.39431	1.82509	0.60923	1	942	29.00000	40.00000	0.00000
1.38471	1.73546	0.61150	1	943	30.00000	40.00000	0.00000
1.37211	1.64944	0.61231	1	944	-40.00000	-30.00000	-0.80000
-0.42368	-0.37840	0.33019	1	945	-39.00000	-30.00000	-0.80000
-0.42973	-0.39218	0.33803	1	946	-38.00000	-30.00000	-0.80000
-0.43568	-0.40648	0.34597	1	947	-37.00000	-30.00000	-0.80000
-0.44152	-0.42134	0.35400	1	948	-36.00000	-30.00000	-0.80000
-0.44723	-0.43674	0.36211	1	949	-35.00000	-30.00000	-0.80000
-0.45277	-0.45272	0.37029	1	950	-34.00000	-30.00000	-0.80000
-0.45812	-0.46929	0.37853	1	951	-33.00000	-30.00000	-0.80000
-0.46325	-0.48644	0.38681	1	952	-32.00000	-30.00000	-0.80000
-0.46812	-0.50420	0.39513	1	953	-31.00000	-30.00000	-0.80000
-0.47269	-0.52257	0.40348	1	954	-30.00000	-30.00000	-0.80000
-0.47694	-0.54156	0.41182	1	955	-29.00000	-30.00000	-0.80000
-0.48082	-0.56116	0.42016	1	956	-28.00000	-30.00000	-0.80000
-0.48428	-0.58139	0.42847	1	957	-27.00000	-30.00000	-0.80000
-0.48727	-0.60223	0.43674	1	958	-26.00000	-30.00000	-0.80000
-0.48976	-0.62369	0.44494	1	959	-25.00000	-30.00000	-0.80000
-0.49169	-0.64574	0.45306	1	960	-24.00000	-30.00000	-0.80000
-0.49300	-0.66839	0.46108	1	961	-23.00000	-30.00000	-0.80000
-0.49364	-0.69160	0.46898	1	962	-22.00000	-30.00000	-0.80000
-0.49355	-0.71535	0.47673	1	963	-21.00000	-30.00000	-0.80000
-0.49268	-0.73961	0.48433	1	964	-20.00000	-30.00000	-0.80000
-0.49096	-0.76435	0.49175	1	965	-19.00000	-30.00000	-0.80000
-0.48833	-0.78952	0.49897	1	966	-18.00000	-30.00000	-0.80000
-0.48473	-0.81508	0.50596	1	967	-17.00000	-30.00000	-0.80000
-0.48011	-0.84095	0.51272	1	968	-16.00000	-30.00000	-0.80000
-0.47440	-0.86709	0.51923	1	969	-15.00000	-30.00000	-0.80000
-0.46755	-0.89340	0.52547	1				



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Ref.		Name		Ref.	x	y	z
x	y	z					
-0.45950	-0.91982	0.53142	1	970	-14.00000	-30.00000	-0.80000
-0.45019	-0.94626	0.53707	1	971	-13.00000	-30.00000	-0.80000
-0.43960	-0.97260	0.54241	1	972	-12.00000	-30.00000	-0.80000
-0.42766	-0.99876	0.54743	1	973	-11.00000	-30.00000	-0.80000
-0.41436	-1.02461	0.55213	1	974	-10.00000	-30.00000	-0.80000
-0.39967	-1.05003	0.55649	1	975	-9.00000	-30.00000	-0.80000
-0.38356	-1.07490	0.56053	1	976	-8.00000	-30.00000	-0.80000
-0.36604	-1.09909	0.56422	1	977	-7.00000	-30.00000	-0.80000
-0.34711	-1.12245	0.56759	1	978	-6.00000	-30.00000	-0.80000
-0.32678	-1.14485	0.57062	1	979	-5.00000	-30.00000	-0.80000
-0.30509	-1.16616	0.57333	1	980	-4.00000	-30.00000	-0.80000
-0.28208	-1.18622	0.57573	1	981	-3.00000	-30.00000	-0.80000
-0.25781	-1.20491	0.57782	1	982	-2.00000	-30.00000	-0.80000
-0.23235	-1.22208	0.57961	1	983	-1.00000	-30.00000	-0.80000
-0.20577	-1.23762	0.58111	1	984	0.00000	-30.00000	-0.80000
-0.17818	-1.25139	0.58234	1	985	1.00000	-30.00000	-0.80000
-0.14970	-1.26330	0.58331	1	986	2.00000	-30.00000	-0.80000
-0.12043	-1.27323	0.58402	1	987	3.00000	-30.00000	-0.80000
-0.09051	-1.28112	0.58448	1	988	4.00000	-30.00000	-0.80000
-0.06009	-1.28688	0.58472	1	989	5.00000	-30.00000	-0.80000
-0.02931	-1.29047	0.58472	1	990	6.00000	-30.00000	-0.80000
0.00167	-1.29185	0.58451	1	991	7.00000	-30.00000	-0.80000
0.03270	-1.29100	0.58408	1	992	8.00000	-30.00000	-0.80000
0.06361	-1.28792	0.58344	1	993	9.00000	-30.00000	-0.80000
0.09426	-1.28263	0.58259	1	994	10.00000	-30.00000	-0.80000
0.12448	-1.27517	0.58152	1	995	11.00000	-30.00000	-0.80000
0.15413	-1.26560	0.58023	1	996	12.00000	-30.00000	-0.80000
0.18306	-1.25398	0.57873	1	997	13.00000	-30.00000	-0.80000
0.21114	-1.24041	0.57699	1	998	14.00000	-30.00000	-0.80000
0.23824	-1.22499	0.57502	1	999	15.00000	-30.00000	-0.80000
0.26425	-1.20783	0.57280	1	1000	16.00000	-30.00000	-0.80000
0.28909	-1.18906	0.57034	1	1001	17.00000	-30.00000	-0.80000
0.31265	-1.16881	0.56760	1	1002	18.00000	-30.00000	-0.80000
0.33487	-1.14723	0.56460	1	1003	19.00000	-30.00000	-0.80000
0.35569	-1.12445	0.56132	1	1004	20.00000	-30.00000	-0.80000
				1005	21.00000	-30.00000	-0.80000



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
0.37508	-1.10063	0.55775	1	1006	22.00000	-30.00000	-0.80000
0.39300	-1.07592	0.55389	1	1007	23.00000	-30.00000	-0.80000
0.40945	-1.05046	0.54973	1	1008	24.00000	-30.00000	-0.80000
0.42442	-1.02439	0.54528	1	1009	25.00000	-30.00000	-0.80000
0.43792	-0.99785	0.54052	1	1010	26.00000	-30.00000	-0.80000
0.44998	-0.97098	0.53546	1	1011	27.00000	-30.00000	-0.80000
0.46064	-0.94390	0.53010	1	1012	28.00000	-30.00000	-0.80000
0.46992	-0.91673	0.52446	1	1013	29.00000	-30.00000	-0.80000
0.47789	-0.88957	0.51853	1	1014	30.00000	-30.00000	-0.80000
0.48458	-0.86253	0.51233	1	1015	-40.00000	-23.00000	-0.80000
-0.52796	-0.39273	0.37958	1	1016	-39.00000	-23.00000	-0.80000
-0.53855	-0.40936	0.38915	1	1017	-38.00000	-23.00000	-0.80000
-0.54922	-0.42680	0.39884	1	1018	-37.00000	-23.00000	-0.80000
-0.55995	-0.44508	0.40862	1	1019	-36.00000	-23.00000	-0.80000
-0.57072	-0.46425	0.41849	1	1020	-35.00000	-23.00000	-0.80000
-0.58149	-0.48433	0.42842	1	1021	-34.00000	-23.00000	-0.80000
-0.59223	-0.50537	0.43839	1	1022	-33.00000	-23.00000	-0.80000
-0.60291	-0.52740	0.44837	1	1023	-32.00000	-23.00000	-0.80000
-0.61348	-0.55047	0.45835	1	1024	-31.00000	-23.00000	-0.80000
-0.62390	-0.57461	0.46830	1	1025	-30.00000	-23.00000	-0.80000
-0.63412	-0.59986	0.47818	1	1026	-29.00000	-23.00000	-0.80000
-0.64406	-0.62625	0.48797	1	1027	-28.00000	-23.00000	-0.80000
-0.65368	-0.65382	0.49763	1	1028	-27.00000	-23.00000	-0.80000
-0.66291	-0.68260	0.50713	1	1029	-26.00000	-23.00000	-0.80000
-0.67165	-0.71261	0.51644	1	1030	-25.00000	-23.00000	-0.80000
-0.67983	-0.74388	0.52550	1	1031	-24.00000	-23.00000	-0.80000
-0.68736	-0.77641	0.53429	1	1032	-23.00000	-23.00000	-0.80000
-0.69414	-0.81023	0.54276	1	1033	-22.00000	-23.00000	-0.80000
-0.70005	-0.84533	0.55088	1	1034	-21.00000	-23.00000	-0.80000
-0.70499	-0.88170	0.55860	1	1035	-20.00000	-23.00000	-0.80000
-0.70883	-0.91933	0.56588	1	1036	-19.00000	-23.00000	-0.80000
-0.71145	-0.95818	0.57268	1	1037	-18.00000	-23.00000	-0.80000
-0.71271	-0.99821	0.57898	1	1038	-17.00000	-23.00000	-0.80000
-0.71246	-1.03937	0.58473	1	1039	-16.00000	-23.00000	-0.80000
-0.71057	-1.08156	0.58990	1	1040	-15.00000	-23.00000	-0.80000
-0.70688	-1.12471	0.59447	1				



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Drg. Ref.		
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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-0.70124	-1.16869	0.59842	1	1041	-14.00000	-23.00000	-0.80000
-0.69351	-1.21336	0.60172	1	1042	-13.00000	-23.00000	-0.80000
-0.68354	-1.25858	0.60439	1	1043	-12.00000	-23.00000	-0.80000
-0.67119	-1.30414	0.60641	1	1044	-11.00000	-23.00000	-0.80000
-0.65632	-1.34986	0.60779	1	1045	-10.00000	-23.00000	-0.80000
-0.63882	-1.39549	0.60855	1	1046	-9.00000	-23.00000	-0.80000
-0.61858	-1.44078	0.60872	1	1047	-8.00000	-23.00000	-0.80000
-0.59552	-1.48546	0.60833	1	1048	-7.00000	-23.00000	-0.80000
-0.56958	-1.52922	0.60743	1	1049	-6.00000	-23.00000	-0.80000
-0.54071	-1.57176	0.60608	1	1050	-5.00000	-23.00000	-0.80000
-0.50893	-1.61274	0.60433	1	1051	-4.00000	-23.00000	-0.80000
-0.47425	-1.65181	0.60226	1	1052	-3.00000	-23.00000	-0.80000
-0.43675	-1.68865	0.59994	1	1053	-2.00000	-23.00000	-0.80000
-0.39654	-1.72290	0.59745	1	1054	-1.00000	-23.00000	-0.80000
-0.35375	-1.75422	0.59487	1	1055	0.00000	-23.00000	-0.80000
-0.30859	-1.78230	0.59229	1	1056	1.00000	-23.00000	-0.80000
-0.26127	-1.80683	0.58978	1	1057	2.00000	-23.00000	-0.80000
-0.21205	-1.82754	0.58742	1	1058	3.00000	-23.00000	-0.80000
-0.16124	-1.84419	0.58527	1	1059	4.00000	-23.00000	-0.80000
-0.10916	-1.85657	0.58339	1	1060	5.00000	-23.00000	-0.80000
-0.05615	-1.86453	0.58184	1	1061	6.00000	-23.00000	-0.80000
-0.00259	-1.86796	0.58065	1	1062	7.00000	-23.00000	-0.80000
0.05113	-1.86680	0.57983	1	1063	8.00000	-23.00000	-0.80000
0.10465	-1.86104	0.57941	1	1064	9.00000	-23.00000	-0.80000
0.15756	-1.85073	0.57937	1	1065	10.00000	-23.00000	-0.80000
0.20950	-1.83597	0.57971	1	1066	11.00000	-23.00000	-0.80000
0.26010	-1.81691	0.58038	1	1067	12.00000	-23.00000	-0.80000
0.30903	-1.79374	0.58134	1	1068	13.00000	-23.00000	-0.80000
0.35597	-1.76671	0.58254	1	1069	14.00000	-23.00000	-0.80000
0.40064	-1.73609	0.58391	1	1070	15.00000	-23.00000	-0.80000
0.44281	-1.70218	0.58539	1	1071	16.00000	-23.00000	-0.80000
0.48226	-1.66534	0.58689	1	1072	17.00000	-23.00000	-0.80000
0.51883	-1.62590	0.58833	1	1073	18.00000	-23.00000	-0.80000
0.55242	-1.58424	0.58964	1	1074	19.00000	-23.00000	-0.80000
0.58294	-1.54073	0.59072	1	1075	20.00000	-23.00000	-0.80000
				1076	21.00000	-23.00000	-0.80000



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
0.61036	-1.49572	0.59151	1	1077	22.00000	-23.00000	-0.80000
0.63468	-1.44958	0.59193	1	1078	23.00000	-23.00000	-0.80000
0.65595	-1.40265	0.59192	1	1079	24.00000	-23.00000	-0.80000
0.67425	-1.35526	0.59142	1	1080	25.00000	-23.00000	-0.80000
0.68966	-1.30770	0.59038	1	1081	26.00000	-23.00000	-0.80000
0.70232	-1.26025	0.58877	1	1082	27.00000	-23.00000	-0.80000
0.71237	-1.21315	0.58657	1	1083	28.00000	-23.00000	-0.80000
0.71997	-1.16663	0.58375	1	1084	29.00000	-23.00000	-0.80000
0.72528	-1.12087	0.58030	1	1085	30.00000	-23.00000	-0.80000
0.72847	-1.07604	0.57624	1	1086	-40.00000	-16.00000	-0.80000
-0.64973	-0.38635	0.42780	1	1087	-39.00000	-16.00000	-0.80000
-0.66688	-0.40525	0.43897	1	1088	-38.00000	-16.00000	-0.80000
-0.68449	-0.42527	0.45022	1	1089	-37.00000	-16.00000	-0.80000
-0.70255	-0.44650	0.46152	1	1090	-36.00000	-16.00000	-0.80000
-0.72104	-0.46900	0.47284	1	1091	-35.00000	-16.00000	-0.80000
-0.73996	-0.49285	0.48414	1	1092	-34.00000	-16.00000	-0.80000
-0.75928	-0.51816	0.49538	1	1093	-33.00000	-16.00000	-0.80000
-0.77898	-0.54499	0.50650	1	1094	-32.00000	-16.00000	-0.80000
-0.79903	-0.57346	0.51746	1	1095	-31.00000	-16.00000	-0.80000
-0.81939	-0.60366	0.52819	1	1096	-30.00000	-16.00000	-0.80000
-0.84002	-0.63570	0.53863	1	1097	-29.00000	-16.00000	-0.80000
-0.86085	-0.66967	0.54871	1	1098	-28.00000	-16.00000	-0.80000
-0.88181	-0.70570	0.55834	1	1099	-27.00000	-16.00000	-0.80000
-0.90284	-0.74390	0.56745	1	1100	-26.00000	-16.00000	-0.80000
-0.92383	-0.78437	0.57594	1	1101	-25.00000	-16.00000	-0.80000
-0.94468	-0.82725	0.58373	1	1102	-24.00000	-16.00000	-0.80000
-0.96525	-0.87263	0.59070	1	1103	-23.00000	-16.00000	-0.80000
-0.98541	-0.92064	0.59676	1	1104	-22.00000	-16.00000	-0.80000
-1.00498	-0.97138	0.60180	1	1105	-21.00000	-16.00000	-0.80000
-1.02378	-1.02494	0.60570	1	1106	-20.00000	-16.00000	-0.80000
-1.04159	-1.08142	0.60836	1	1107	-19.00000	-16.00000	-0.80000
-1.05819	-1.14089	0.60965	1	1108	-18.00000	-16.00000	-0.80000
-1.07330	-1.20341	0.60947	1	1109	-17.00000	-16.00000	-0.80000
-1.08664	-1.26900	0.60771	1	1110	-16.00000	-16.00000	-0.80000
-1.09788	-1.33768	0.60428	1	1111	-15.00000	-16.00000	-0.80000
-1.10669	-1.40940	0.59908	1				



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-1.11269	-1.48411	0.59204	1	1112	-14.00000	-16.00000	-0.80000
-1.11547	-1.56167	0.58310	1	1113	-13.00000	-16.00000	-0.80000
-1.11463	-1.64192	0.57224	1	1114	-12.00000	-16.00000	-0.80000
-1.10973	-1.72463	0.55945	1	1115	-11.00000	-16.00000	-0.80000
-1.10032	-1.80947	0.54475	1	1116	-10.00000	-16.00000	-0.80000
-1.08595	-1.89608	0.52822	1	1117	-9.00000	-16.00000	-0.80000
-1.06617	-1.98399	0.50995	1	1118	-8.00000	-16.00000	-0.80000
-1.04057	-2.07263	0.49011	1	1119	-7.00000	-16.00000	-0.80000
-1.00876	-2.16137	0.46889	1	1120	-6.00000	-16.00000	-0.80000
-0.97040	-2.24947	0.44656	1	1121	-5.00000	-16.00000	-0.80000
-0.92523	-2.33610	0.42342	1	1122	-4.00000	-16.00000	-0.80000
-0.87308	-2.42037	0.39982	1	1123	-3.00000	-16.00000	-0.80000
-0.81387	-2.50132	0.37616	1	1124	-2.00000	-16.00000	-0.80000
-0.74767	-2.57793	0.35286	1	1125	-1.00000	-16.00000	-0.80000
-0.67468	-2.64919	0.33037	1	1126	0.00000	-16.00000	-0.80000
-0.59524	-2.71410	0.30914	1	1127	1.00000	-16.00000	-0.80000
-0.50985	-2.77168	0.28962	1	1128	2.00000	-16.00000	-0.80000
-0.41912	-2.82103	0.27221	1	1129	3.00000	-16.00000	-0.80000
-0.32383	-2.86137	0.25731	1	1130	4.00000	-16.00000	-0.80000
-0.22483	-2.89202	0.24523	1	1131	5.00000	-16.00000	-0.80000
-0.12309	-2.91244	0.23625	1	1132	6.00000	-16.00000	-0.80000
-0.01962	-2.92227	0.23055	1	1133	7.00000	-16.00000	-0.80000
0.08451	-2.92129	0.22827	1	1134	8.00000	-16.00000	-0.80000
0.18822	-2.90946	0.22945	1	1135	9.00000	-16.00000	-0.80000
0.29043	-2.88691	0.23405	1	1136	10.00000	-16.00000	-0.80000
0.39010	-2.85393	0.24198	1	1137	11.00000	-16.00000	-0.80000
0.48622	-2.81097	0.25306	1	1138	12.00000	-16.00000	-0.80000
0.57786	-2.75862	0.26704	1	1139	13.00000	-16.00000	-0.80000
0.66418	-2.69763	0.28361	1	1140	14.00000	-16.00000	-0.80000
0.74444	-2.62886	0.30240	1	1141	15.00000	-16.00000	-0.80000
0.81804	-2.55326	0.32300	1	1142	16.00000	-16.00000	-0.80000
0.88451	-2.47188	0.34498	1	1143	17.00000	-16.00000	-0.80000
0.94355	-2.38580	0.36785	1	1144	18.00000	-16.00000	-0.80000
0.99498	-2.29611	0.39117	1	1145	19.00000	-16.00000	-0.80000
1.03881	-2.20391	0.41446	1	1146	20.00000	-16.00000	-0.80000
				1147	21.00000	-16.00000	-0.80000



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Job No.	Sheet No.	Rev.
517419		
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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
1.07517	-2.11024	0.43731	1	1148	22.00000	-16.00000	-0.80000
1.10432	-2.01605	0.45932	1	1149	23.00000	-16.00000	-0.80000
1.12662	-1.92225	0.48014	1	1150	24.00000	-16.00000	-0.80000
1.14254	-1.82959	0.49949	1	1151	25.00000	-16.00000	-0.80000
1.15257	-1.73874	0.51715	1	1152	26.00000	-16.00000	-0.80000
1.15727	-1.65024	0.53294	1	1153	27.00000	-16.00000	-0.80000
1.15719	-1.56453	0.54675	1	1154	28.00000	-16.00000	-0.80000
1.15290	-1.48193	0.55852	1	1155	29.00000	-16.00000	-0.80000
1.14493	-1.40268	0.56824	1	1156	30.00000	-16.00000	-0.80000
1.13380	-1.32693	0.57592	1	1157	-40.00000	-9.00000	-0.80000
-0.78092	-0.34776	0.47033	1	1158	-39.00000	-9.00000	-0.80000
-0.80662	-0.36713	0.48263	1	1159	-38.00000	-9.00000	-0.80000
-0.83340	-0.38787	0.49491	1	1160	-37.00000	-9.00000	-0.80000
-0.86132	-0.41011	0.50711	1	1161	-36.00000	-9.00000	-0.80000
-0.89042	-0.43396	0.51915	1	1162	-35.00000	-9.00000	-0.80000
-0.92073	-0.45957	0.53095	1	1163	-34.00000	-9.00000	-0.80000
-0.95231	-0.48709	0.54243	1	1164	-33.00000	-9.00000	-0.80000
-0.98518	-0.51669	0.55347	1	1165	-32.00000	-9.00000	-0.80000
-1.01939	-0.54853	0.56396	1	1166	-31.00000	-9.00000	-0.80000
-1.05496	-0.58282	0.57375	1	1167	-30.00000	-9.00000	-0.80000
-1.09193	-0.61976	0.58271	1	1168	-29.00000	-9.00000	-0.80000
-1.13029	-0.65960	0.59066	1	1169	-28.00000	-9.00000	-0.80000
-1.17006	-0.70258	0.59740	1	1170	-27.00000	-9.00000	-0.80000
-1.21123	-0.74897	0.60274	1	1171	-26.00000	-9.00000	-0.80000
-1.25378	-0.79907	0.60643	1	1172	-25.00000	-9.00000	-0.80000
-1.29765	-0.85318	0.60821	1	1173	-24.00000	-9.00000	-0.80000
-1.34277	-0.91166	0.60781	1	1174	-23.00000	-9.00000	-0.80000
-1.38904	-0.97486	0.60491	1	1175	-22.00000	-9.00000	-0.80000
-1.43633	-1.04316	0.59918	1	1176	-21.00000	-9.00000	-0.80000
-1.48445	-1.11697	0.59026	1	1177	-20.00000	-9.00000	-0.80000
-1.53317	-1.19671	0.57774	1	1178	-19.00000	-9.00000	-0.80000
-1.58219	-1.28280	0.56122	1	1179	-18.00000	-9.00000	-0.80000
-1.63117	-1.37568	0.54026	1	1180	-17.00000	-9.00000	-0.80000
-1.67965	-1.47580	0.51440	1	1181	-16.00000	-9.00000	-0.80000
-1.72713	-1.58358	0.48316	1	1182	-15.00000	-9.00000	-0.80000
-1.77298	-1.69942	0.44606	1				



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517419		
Drg. Ref.		
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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-1.81647	-1.82370	0.40262	1	1183	-14.00000	-9.00000	-0.80000
-1.85677	-1.95670	0.35236	1	1184	-13.00000	-9.00000	-0.80000
-1.89289	-2.09868	0.29485	1	1185	-12.00000	-9.00000	-0.80000
-1.92375	-2.24975	0.22969	1	1186	-11.00000	-9.00000	-0.80000
-1.94808	-2.40991	0.15654	1	1187	-10.00000	-9.00000	-0.80000
-1.96451	-2.57899	0.07518	1	1188	-9.00000	-9.00000	-0.80000
-1.97149	-2.75661	-0.01447	1	1189	-8.00000	-9.00000	-0.80000
-1.96733	-2.94213	-0.11229	1	1190	-7.00000	-9.00000	-0.80000
-1.95020	-3.13457	-0.21792	1	1191	-6.00000	-9.00000	-0.80000
-1.91818	-3.33256	-0.33065	1	1192	-5.00000	-9.00000	-0.80000
-1.86934	-3.53424	-0.44936	1	1193	-4.00000	-9.00000	-0.80000
-1.80186	-3.73721	-0.57250	1	1194	-3.00000	-9.00000	-0.80000
-1.71418	-3.93850	-0.69800	1	1195	-2.00000	-9.00000	-0.80000
-1.60523	-4.13463	-0.82334	1	1196	-1.00000	-9.00000	-0.80000
-1.47464	-4.32169	-0.94566	1	1197	0.00000	-9.00000	-0.80000
-1.32281	-4.49565	-1.06192	1	1198	1.00000	-9.00000	-0.80000
-1.15106	-4.65256	-1.16909	1	1199	2.00000	-9.00000	-0.80000
-0.96147	-4.78883	-1.26440	1	1200	3.00000	-9.00000	-0.80000
-0.75676	-4.90145	-1.34548	1	1201	4.00000	-9.00000	-0.80000
-0.54004	-4.98809	-1.41046	1	1202	5.00000	-9.00000	-0.80000
-0.31464	-5.04712	-1.45797	1	1203	6.00000	-9.00000	-0.80000
-0.08392	-5.07756	-1.48715	1	1204	7.00000	-9.00000	-0.80000
0.14884	-5.07899	-1.49755	1	1205	8.00000	-9.00000	-0.80000
0.38045	-5.05145	-1.48907	1	1206	9.00000	-9.00000	-0.80000
0.60784	-4.99542	-1.46193	1	1207	10.00000	-9.00000	-0.80000
0.82804	-4.91173	-1.41663	1	1208	11.00000	-9.00000	-0.80000
1.03809	-4.80160	-1.35395	1	1209	12.00000	-9.00000	-0.80000
1.23514	-4.66668	-1.27500	1	1210	13.00000	-9.00000	-0.80000
1.41641	-4.50908	-1.18128	1	1211	14.00000	-9.00000	-0.80000
1.57929	-4.33150	-1.07470	1	1212	15.00000	-9.00000	-0.80000
1.72156	-4.13718	-0.95759	1	1213	16.00000	-9.00000	-0.80000
1.84150	-3.92987	-0.83270	1	1214	17.00000	-9.00000	-0.80000
1.93815	-3.71372	-0.70306	1	1215	18.00000	-9.00000	-0.80000
2.01138	-3.49299	-0.57180	1	1216	19.00000	-9.00000	-0.80000
2.06197	-3.27184	-0.44194	1	1217	20.00000	-9.00000	-0.80000
				1218	21.00000	-9.00000	-0.80000



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Job No.	Sheet No.	Rev.
517419		
Drg. Ref.		
Made by HM	Date 20-Dec-2022	Checked Date

Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.	Name			Ref.	x	y	z
x	y	z					
2.09149	-3.05401	-0.31620	1	1219	22.00000	-9.00000	-0.80000
2.10210	-2.84260	-0.19680	1	1220	23.00000	-9.00000	-0.80000
2.09632	-2.64003	-0.08544	1	1221	24.00000	-9.00000	-0.80000
2.07681	-2.44796	0.01679	1	1222	25.00000	-9.00000	-0.80000
2.04614	-2.26743	0.10927	1	1223	26.00000	-9.00000	-0.80000
2.00670	-2.09889	0.19184	1	1224	27.00000	-9.00000	-0.80000
1.96059	-1.94238	0.26466	1	1225	28.00000	-9.00000	-0.80000
1.90964	-1.79763	0.32812	1	1226	29.00000	-9.00000	-0.80000
1.85534	-1.66416	0.38280	1	1227	30.00000	-9.00000	-0.80000
1.79893	-1.54136	0.42932	1	1228	-40.00000	-2.00000	-0.80000
-0.90432	-0.26748	0.50281	1	1229	-39.00000	-2.00000	-0.80000
-0.93939	-0.28404	0.51561	1	1230	-38.00000	-2.00000	-0.80000
-0.97641	-0.30196	0.52819	1	1231	-37.00000	-2.00000	-0.80000
-1.01552	-0.32137	0.54044	1	1232	-36.00000	-2.00000	-0.80000
-1.05686	-0.34242	0.55224	1	1233	-35.00000	-2.00000	-0.80000
-1.10059	-0.36529	0.56344	1	1234	-34.00000	-2.00000	-0.80000
-1.14688	-0.39018	0.57386	1	1235	-33.00000	-2.00000	-0.80000
-1.19591	-0.41729	0.58329	1	1236	-32.00000	-2.00000	-0.80000
-1.24788	-0.44687	0.59150	1	1237	-31.00000	-2.00000	-0.80000
-1.30298	-0.47921	0.59822	1	1238	-30.00000	-2.00000	-0.80000
-1.36145	-0.51460	0.60313	1	1239	-29.00000	-2.00000	-0.80000
-1.42350	-0.55340	0.60586	1	1240	-28.00000	-2.00000	-0.80000
-1.48940	-0.59601	0.60600	1	1241	-27.00000	-2.00000	-0.80000
-1.55940	-0.64289	0.60306	1	1242	-26.00000	-2.00000	-0.80000
-1.63376	-0.69453	0.59648	1	1243	-25.00000	-2.00000	-0.80000
-1.71277	-0.75152	0.58562	1	1244	-24.00000	-2.00000	-0.80000
-1.79669	-0.81451	0.56973	1	1245	-23.00000	-2.00000	-0.80000
-1.88580	-0.88426	0.54798	1	1246	-22.00000	-2.00000	-0.80000
-1.98037	-0.96159	0.51938	1	1247	-21.00000	-2.00000	-0.80000
-2.08063	-1.04747	0.48282	1	1248	-20.00000	-2.00000	-0.80000
-2.18677	-1.14296	0.43700	1	1249	-19.00000	-2.00000	-0.80000
-2.29893	-1.24927	0.38048	1	1250	-18.00000	-2.00000	-0.80000
-2.41714	-1.36774	0.31157	1	1251	-17.00000	-2.00000	-0.80000
-2.54132	-1.49984	0.22839	1	1252	-16.00000	-2.00000	-0.80000
-2.67121	-1.64721	0.12879	1	1253	-15.00000	-2.00000	-0.80000
-2.80632	-1.81158	0.01038	1				



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-2.94588	-1.99478	-0.12950	1	1254	-14.00000	-2.00000	-0.80000
-3.08877	-2.19869	-0.29376	1	1255	-13.00000	-2.00000	-0.80000
-3.23345	-2.42513	-0.48558	1	1256	-12.00000	-2.00000	-0.80000
-3.37793	-2.67581	-0.70832	1	1257	-11.00000	-2.00000	-0.80000
-3.51976	-2.95215	-0.96555	1	1258	-10.00000	-2.00000	-0.80000
-3.65600	-3.25523	-1.26101	1	1259	-9.00000	-2.00000	-0.80000
-3.78334	-3.58569	-1.59860	1	1260	-8.00000	-2.00000	-0.80000
-3.89804	-3.94378	-1.98253	1	1261	-7.00000	-2.00000	-0.80000
-3.99575	-4.32952	-2.41737	1	1262	-6.00000	-2.00000	-0.80000
-4.07107	-4.74288	-2.90819	1	1263	-5.00000	-2.00000	-0.80000
-4.11641	-5.18379	-3.46027	1	1264	-4.00000	-2.00000	-0.80000
-4.12058	-5.65154	-4.07811	1	1265	-3.00000	-2.00000	-0.80000
-4.06729	-6.14299	-4.76241	1	1266	-2.00000	-2.00000	-0.80000
-3.93587	-6.64912	-5.50373	1	1267	-1.00000	-2.00000	-0.80000
-3.70716	-7.15179	-6.27229	1	1268	0.00000	-2.00000	-0.80000
-3.37446	-7.62504	-7.01498	1	1269	1.00000	-2.00000	-0.80000
-2.94975	-8.04344	-7.67957	1	1270	2.00000	-2.00000	-0.80000
-2.45726	-8.39045	-8.23764	1	1271	3.00000	-2.00000	-0.80000
-1.92224	-8.65974	-8.68086	1	1272	4.00000	-2.00000	-0.80000
-1.36471	-8.85164	-9.01190	1	1273	5.00000	-2.00000	-0.80000
-0.79859	-8.96957	-9.23827	1	1274	6.00000	-2.00000	-0.80000
-0.23288	-9.01775	-9.36740	1	1275	7.00000	-2.00000	-0.80000
0.32669	-9.00011	-9.40490	1	1276	8.00000	-2.00000	-0.80000
0.87643	-8.91986	-9.35511	1	1277	9.00000	-2.00000	-0.80000
1.41370	-8.77938	-9.22065	1	1278	10.00000	-2.00000	-0.80000
1.93614	-8.58009	-9.00237	1	1279	11.00000	-2.00000	-0.80000
2.44087	-8.32241	-8.69967	1	1280	12.00000	-2.00000	-0.80000
2.92333	-8.00574	-8.30970	1	1281	13.00000	-2.00000	-0.80000
3.37574	-7.62904	-7.82801	1	1282	14.00000	-2.00000	-0.80000
3.78549	-7.19203	-7.25006	1	1283	15.00000	-2.00000	-0.80000
4.13400	-6.69777	-6.57528	1	1284	16.00000	-2.00000	-0.80000
4.39835	-6.15643	-5.81559	1	1285	17.00000	-2.00000	-0.80000
4.55839	-5.58829	-5.00519	1	1286	18.00000	-2.00000	-0.80000
4.60815	-5.02135	-4.20012	1	1287	19.00000	-2.00000	-0.80000
4.56092	-4.48215	-3.45197	1	1288	20.00000	-2.00000	-0.80000
				1289	21.00000	-2.00000	-0.80000



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Ref.		Name		Ref.	x	y	z
x	y	z					
4.44161	-3.98770	-2.78694	1	1290	22.00000	-2.00000	-0.80000
4.27568	-3.54476	-2.21100	1	1291	23.00000	-2.00000	-0.80000
4.08351	-3.15320	-1.71991	1	1292	24.00000	-2.00000	-0.80000
3.87957	-2.80948	-1.30525	1	1293	25.00000	-2.00000	-0.80000
3.67347	-2.50867	-0.95738	1	1294	26.00000	-2.00000	-0.80000
3.47128	-2.24560	-0.66688	1	1295	27.00000	-2.00000	-0.80000
3.27662	-2.01536	-0.42509	1	1296	28.00000	-2.00000	-0.80000
3.09146	-1.81353	-0.22440	1	1297	29.00000	-2.00000	-0.80000
2.91677	-1.63623	-0.05826	1	1298	30.00000	-2.00000	-0.80000
2.75280	-1.48010	0.07888	1	1299	-40.00000	5.00000	-0.80000
-0.99470	-0.14511	0.52246	1	1300	-39.00000	5.00000	-0.80000
-1.03745	-0.15479	0.53524	1	1301	-38.00000	5.00000	-0.80000
-1.08297	-0.16535	0.54760	1	1302	-37.00000	5.00000	-0.80000
-1.13150	-0.17687	0.55937	1	1303	-36.00000	5.00000	-0.80000
-1.18331	-0.18948	0.57036	1	1304	-35.00000	5.00000	-0.80000
-1.23869	-0.20330	0.58035	1	1305	-34.00000	5.00000	-0.80000
-1.29798	-0.21848	0.58906	1	1306	-33.00000	5.00000	-0.80000
-1.36152	-0.23520	0.59617	1	1307	-32.00000	5.00000	-0.80000
-1.42975	-0.25363	0.60132	1	1308	-31.00000	5.00000	-0.80000
-1.50310	-0.27401	0.60405	1	1309	-30.00000	5.00000	-0.80000
-1.58208	-0.29660	0.60385	1	1310	-29.00000	5.00000	-0.80000
-1.66728	-0.32170	0.60009	1	1311	-28.00000	5.00000	-0.80000
-1.75933	-0.34967	0.59205	1	1312	-27.00000	5.00000	-0.80000
-1.85896	-0.38090	0.57884	1	1313	-26.00000	5.00000	-0.80000
-1.96696	-0.41590	0.55944	1	1314	-25.00000	5.00000	-0.80000
-2.08427	-0.45523	0.53260	1	1315	-24.00000	5.00000	-0.80000
-2.21191	-0.49955	0.49684	1	1316	-23.00000	5.00000	-0.80000
-2.35104	-0.54968	0.45038	1	1317	-22.00000	5.00000	-0.80000
-2.50297	-0.60657	0.39105	1	1318	-21.00000	5.00000	-0.80000
-2.66915	-0.67136	0.31625	1	1319	-20.00000	5.00000	-0.80000
-2.85121	-0.74541	0.22280	1	1320	-19.00000	5.00000	-0.80000
-3.05096	-0.83037	0.10680	1	1321	-18.00000	5.00000	-0.80000
-3.27035	-0.92823	-0.03653	1	1322	-17.00000	5.00000	-0.80000
-3.51148	-1.04140	-0.21308	1	1323	-16.00000	5.00000	-0.80000
-3.77648	-1.17275	-0.43013	1	1324	-15.00000	5.00000	-0.80000
-4.06745	-1.32579	-0.69667	1				



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-4.38612	-1.50468	-1.02384	1	1325	-14.00000	5.00000	-0.80000
-4.73352	-1.71433	-1.42535	1	1326	-13.00000	5.00000	-0.80000
-5.10922	-1.96040	-1.91808	1	1327	-12.00000	5.00000	-0.80000
-5.51036	-2.24913	-2.52252	1	1328	-11.00000	5.00000	-0.80000
-5.92990	-2.58689	-3.26315	1	1329	-10.00000	5.00000	-0.80000
-6.35432	-2.97905	-4.16811	1	1330	-9.00000	5.00000	-0.80000
-6.76052	-3.42760	-5.26700	1	1331	-8.00000	5.00000	-0.80000
-7.11350	-3.92648	-6.58522	1	1332	-7.00000	5.00000	-0.80000
-7.37141	-4.45509	-8.12935	1	1333	-6.00000	5.00000	-0.80000
-7.50521	-4.97624	-9.81744	1	1334	-5.00000	5.00000	-0.80000
-7.51732	-5.44724	-11.52927	1	1335	-4.00000	5.00000	-0.80000
-7.42854	-5.83629	-13.27634	1	1336	-3.00000	5.00000	-0.80000
-7.24453	-6.12827	-15.10291	1	1337	-2.00000	5.00000	-0.80000
-6.93456	-6.32290	-17.10772	1	1338	-1.00000	5.00000	-0.80000
-6.44280	-6.43414	-19.75780	1	1339	0.00000	5.00000	-0.80000
-5.74166	-6.48723	-22.14629	1	1340	1.00000	5.00000	-0.80000
-4.87140	-6.50681	-23.75288	1	1341	2.00000	5.00000	-0.80000
-3.90584	-6.50616	-25.04060	1	1342	3.00000	5.00000	-0.80000
-2.90361	-6.48760	-25.96684	1	1343	4.00000	5.00000	-0.80000
-1.89721	-6.44817	-26.44788	1	1344	5.00000	5.00000	-0.80000
-0.90124	-6.38358	-26.78425	1	1345	6.00000	5.00000	-0.80000
0.07883	-6.28990	-27.00896	1	1346	7.00000	5.00000	-0.80000
1.04047	-6.16418	-26.87872	1	1347	8.00000	5.00000	-0.80000
1.97974	-6.00490	-26.49029	1	1348	9.00000	5.00000	-0.80000
2.88943	-5.81245	-25.92771	1	1349	10.00000	5.00000	-0.80000
3.76397	-5.58919	-25.08945	1	1350	11.00000	5.00000	-0.80000
4.60722	-5.33850	-24.27566	1	1351	12.00000	5.00000	-0.80000
5.42869	-5.06329	-23.19162	1	1352	13.00000	5.00000	-0.80000
6.22920	-4.76560	-21.84981	1	1353	14.00000	5.00000	-0.80000
6.98884	-4.44748	-20.29938	1	1354	15.00000	5.00000	-0.80000
7.65758	-4.11230	-18.44007	1	1355	16.00000	5.00000	-0.80000
8.15090	-3.76572	-16.19508	1	1356	17.00000	5.00000	-0.80000
8.37482	-3.41580	-13.04445	1	1357	18.00000	5.00000	-0.80000
8.29434	-3.07205	-10.23895	1	1358	19.00000	5.00000	-0.80000
7.96965	-2.74367	-8.07521	1	1359	20.00000	5.00000	-0.80000
				1360	21.00000	5.00000	-0.80000



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Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.	Name			Ref.	x	y	z
x	y	z					
7.50273	-2.43793	-6.33900	1	1361	22.00000	5.00000	-0.80000
6.97715	-2.15929	-4.94989	1	1362	23.00000	5.00000	-0.80000
6.44446	-1.90952	-3.84032	1	1363	24.00000	5.00000	-0.80000
5.93258	-1.68831	-2.95323	1	1364	25.00000	5.00000	-0.80000
5.45505	-1.49398	-2.24261	1	1365	26.00000	5.00000	-0.80000
5.01706	-1.32413	-1.67208	1	1366	27.00000	5.00000	-0.80000
4.61923	-1.17610	-1.21301	1	1367	28.00000	5.00000	-0.80000
4.25977	-1.04722	-0.84292	1	1368	29.00000	5.00000	-0.80000
3.93576	-0.93501	-0.54407	1	1369	30.00000	5.00000	-0.80000
3.64390	-0.83719	-0.30251	1	1370	-40.00000	12.00000	-0.80000
-1.02752	0.00455	0.52845	1	1371	-39.00000	12.00000	-0.80000
-1.07327	0.00472	0.54111	1	1372	-38.00000	12.00000	-0.80000
-1.12214	0.00490	0.55325	1	1373	-37.00000	12.00000	-0.80000
-1.17441	0.00508	0.56468	1	1374	-36.00000	12.00000	-0.80000
-1.23041	0.00527	0.57518	1	1375	-35.00000	12.00000	-0.80000
-1.29050	0.00547	0.58448	1	1376	-34.00000	12.00000	-0.80000
-1.35509	0.00567	0.59228	1	1377	-33.00000	12.00000	-0.80000
-1.42463	0.00587	0.59819	1	1378	-32.00000	12.00000	-0.80000
-1.49963	0.00609	0.60179	1	1379	-31.00000	12.00000	-0.80000
-1.58068	0.00630	0.60254	1	1380	-30.00000	12.00000	-0.80000
-1.66845	0.00653	0.59981	1	1381	-29.00000	12.00000	-0.80000
-1.76367	0.00676	0.59286	1	1382	-28.00000	12.00000	-0.80000
-1.86722	0.00700	0.58080	1	1383	-27.00000	12.00000	-0.80000
-1.98006	0.00726	0.56254	1	1384	-26.00000	12.00000	-0.80000
-2.10333	0.00752	0.53680	1	1385	-25.00000	12.00000	-0.80000
-2.23832	0.00781	0.50202	1	1386	-24.00000	12.00000	-0.80000
-2.38652	0.00812	0.45629	1	1387	-23.00000	12.00000	-0.80000
-2.54965	0.00847	0.39728	1	1388	-22.00000	12.00000	-0.80000
-2.72971	0.00889	0.32216	1	1389	-21.00000	12.00000	-0.80000
-2.92899	0.00940	0.22739	1	1390	-20.00000	12.00000	-0.80000
-3.15017	0.01005	0.10858	1	1391	-19.00000	12.00000	-0.80000
-3.39631	0.01089	-0.03976	1	1392	-18.00000	12.00000	-0.80000
-3.67096	0.01205	-0.22454	1	1393	-17.00000	12.00000	-0.80000
-3.97811	0.01364	-0.45455	1	1394	-16.00000	12.00000	-0.80000
-4.32223	0.01588	-0.74099	1	1395	-15.00000	12.00000	-0.80000
-4.70814	0.01904	-1.09823	1				



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517419		
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Ref.		Name		Ref.	x	y	z
x	y	z					
-5.14073	0.02352	-1.54484	1	1396	-14.00000	12.00000	-0.80000
-5.62438	0.02981	-2.10488	1	1397	-13.00000	12.00000	-0.80000
-6.16180	0.03855	-2.80972	1	1398	-12.00000	12.00000	-0.80000
-6.75189	0.05038	-3.70036	1	1399	-11.00000	12.00000	-0.80000
-7.38604	0.06582	-4.83007	1	1400	-10.00000	12.00000	-0.80000
-8.04150	0.08480	-6.26615	1	1401	-9.00000	12.00000	-0.80000
-8.67071	0.10590	-8.08776	1	1402	-8.00000	12.00000	-0.80000
-9.18888	0.12546	-10.37777	1	1403	-7.00000	12.00000	-0.80000
-9.48056	0.13725	-13.25907	1	1404	-6.00000	12.00000	-0.80000
-9.45879	0.13405	-16.65575	1	1405	-5.00000	12.00000	-0.80000
-9.13532	0.11195	-19.28776	1	1406	-4.00000	12.00000	-0.80000
-8.59644	0.07477	-21.65870	1	1407	-3.00000	12.00000	-0.80000
-7.92298	0.03466	-23.53358	1	1408	-2.00000	12.00000	-0.80000
-7.15351	0.00727	-25.19531	1	1409	-1.00000	12.00000	-0.80000
-6.29688	0.00453	-26.94153	1	1410	0.00000	12.00000	-0.80000
-5.35985	0.03056	-28.22299	1	1411	1.00000	12.00000	-0.80000
-4.36090	0.08298	-29.19421	1	1412	2.00000	12.00000	-0.80000
-3.32378	0.15649	-30.00568	1	1413	3.00000	12.00000	-0.80000
-2.26781	0.24561	-30.56931	1	1414	4.00000	12.00000	-0.80000
-1.20575	0.34556	-30.76832	1	1415	5.00000	12.00000	-0.80000
-0.14587	0.45233	-30.85216	1	1416	6.00000	12.00000	-0.80000
0.90542	0.56239	-30.83013	1	1417	7.00000	12.00000	-0.80000
1.94093	0.67231	-30.46105	1	1418	8.00000	12.00000	-0.80000
2.95005	0.77853	-29.83093	1	1419	9.00000	12.00000	-0.80000
3.91851	0.87719	-29.01181	1	1420	10.00000	12.00000	-0.80000
4.83527	0.96411	-27.90753	1	1421	11.00000	12.00000	-0.80000
5.70214	1.03492	-26.82448	1	1422	12.00000	12.00000	-0.80000
6.52984	1.08547	-25.48372	1	1423	13.00000	12.00000	-0.80000
7.32177	1.11244	-23.89492	1	1424	14.00000	12.00000	-0.80000
8.06020	1.11402	-22.10293	1	1425	15.00000	12.00000	-0.80000
8.69621	1.09046	-20.01030	1	1426	16.00000	12.00000	-0.80000
9.14553	1.04422	-17.54276	1	1427	17.00000	12.00000	-0.80000
9.31439	0.97967	-14.18603	1	1428	18.00000	12.00000	-0.80000
9.16894	0.90240	-11.19442	1	1429	19.00000	12.00000	-0.80000
8.77193	0.81823	-8.86187	1	1430	20.00000	12.00000	-0.80000
				1431	21.00000	12.00000	-0.80000



Braemar Avenue

Short Term Analysis No Load From Superstructure

Job No.	Sheet No.	Rev.
517419		
Drg. Ref.		
Made by HM	Date 20-Dec-2022	Checked Date

Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
8.22889	0.73245	-6.97861	1	1432	22.00000	12.00000	-0.80000
7.62711	0.64918	-5.46532	1	1433	23.00000	12.00000	-0.80000
7.02119	0.57125	-4.25310	1	1434	24.00000	12.00000	-0.80000
6.44118	0.50026	-3.28237	1	1435	25.00000	12.00000	-0.80000
5.90175	0.43686	-2.50421	1	1436	26.00000	12.00000	-0.80000
5.40852	0.38104	-1.87945	1	1437	27.00000	12.00000	-0.80000
4.96198	0.33238	-1.37699	1	1438	28.00000	12.00000	-0.80000
4.55994	0.29023	-0.97223	1	1439	29.00000	12.00000	-0.80000
4.19892	0.25386	-0.64571	1	1440	30.00000	12.00000	-0.80000
3.87498	0.22256	-0.38206	1	1441	-40.00000	19.00000	-0.80000
-0.99237	0.15398	0.52086	1	1442	-39.00000	19.00000	-0.80000
-1.03503	0.16400	0.53352	1	1443	-38.00000	19.00000	-0.80000
-1.08047	0.17490	0.54575	1	1444	-37.00000	19.00000	-0.80000
-1.12891	0.18679	0.55737	1	1445	-36.00000	19.00000	-0.80000
-1.18064	0.19977	0.56819	1	1446	-35.00000	19.00000	-0.80000
-1.23594	0.21398	0.57799	1	1447	-34.00000	19.00000	-0.80000
-1.29514	0.22956	0.58650	1	1448	-33.00000	19.00000	-0.80000
-1.35861	0.24668	0.59338	1	1449	-32.00000	19.00000	-0.80000
-1.42677	0.26553	0.59827	1	1450	-31.00000	19.00000	-0.80000
-1.50005	0.28634	0.60071	1	1451	-30.00000	19.00000	-0.80000
-1.57899	0.30936	0.60019	1	1452	-29.00000	19.00000	-0.80000
-1.66414	0.33488	0.59606	1	1453	-28.00000	19.00000	-0.80000
-1.75615	0.36326	0.58761	1	1454	-27.00000	19.00000	-0.80000
-1.85575	0.39490	0.57395	1	1455	-26.00000	19.00000	-0.80000
-1.96374	0.43027	0.55404	1	1456	-25.00000	19.00000	-0.80000
-2.08104	0.46993	0.52664	1	1457	-24.00000	19.00000	-0.80000
-2.20868	0.51451	0.49028	1	1458	-23.00000	19.00000	-0.80000
-2.34780	0.56480	0.44316	1	1459	-22.00000	19.00000	-0.80000
-2.49969	0.62170	0.38314	1	1460	-21.00000	19.00000	-0.80000
-2.66581	0.68627	0.30765	1	1461	-20.00000	19.00000	-0.80000
-2.84775	0.75980	0.21355	1	1462	-19.00000	19.00000	-0.80000
-3.04729	0.84379	0.09700	1	1463	-18.00000	19.00000	-0.80000
-3.26634	0.94002	-0.04665	1	1464	-17.00000	19.00000	-0.80000
-3.50697	1.05063	-0.22313	1	1465	-16.00000	19.00000	-0.80000
-3.77129	1.17807	-0.43946	1	1466	-15.00000	19.00000	-0.80000
-4.06140	1.32523	-0.70427	1				



Braemar Avenue

Short Term Analysis No Load From Superstructure

Job No.	Sheet No.	Rev.
517419		
Drg. Ref.		
Made by HM	Date 20-Dec-2022	Checked Date

Set: Displacements: Displacements: Displacements:				Result: Coordinates: Coordinates: Coordinates:			
Ref.		Name		Ref.	x	y	z
x	y	z					
-4.37917	1.49541	-1.02813	1	1467	-14.00000	19.00000	-0.80000
-4.72595	1.69227	-1.42402	1	1468	-13.00000	19.00000	-0.80000
-5.10212	1.91967	-1.90771	1	1469	-12.00000	19.00000	-0.80000
-5.50637	2.18139	-2.49823	1	1470	-11.00000	19.00000	-0.80000
-5.93473	2.48046	-3.21829	1	1471	-10.00000	19.00000	-0.80000
-6.37933	2.81815	-4.09453	1	1472	-9.00000	19.00000	-0.80000
-6.82684	3.19241	-5.15762	1	1473	-8.00000	19.00000	-0.80000
-7.25686	3.59604	-6.44247	1	1474	-7.00000	19.00000	-0.80000
-7.63970	4.01569	-7.98898	1	1475	-6.00000	19.00000	-0.80000
-7.93132	4.43319	-9.84444	1	1476	-5.00000	19.00000	-0.80000
-8.06390	4.83023	-12.06891	1	1477	-4.00000	19.00000	-0.80000
-7.94668	5.19373	-14.79019	1	1478	-3.00000	19.00000	-0.80000
-7.51118	5.51832	-18.09329	1	1479	-2.00000	19.00000	-0.80000
-6.77641	5.80449	-20.54210	1	1480	-1.00000	19.00000	-0.80000
-5.83574	6.05533	-22.59609	1	1481	0.00000	19.00000	-0.80000
-4.78423	6.27457	-23.94234	1	1482	1.00000	19.00000	-0.80000
-3.68209	6.46678	-24.91187	1	1483	2.00000	19.00000	-0.80000
-2.56016	6.63836	-25.63129	1	1484	3.00000	19.00000	-0.80000
-1.43533	6.79756	-26.01416	1	1485	4.00000	19.00000	-0.80000
-0.32266	6.95246	-25.94030	1	1486	5.00000	19.00000	-0.80000
0.75819	7.10665	-25.68178	1	1487	6.00000	19.00000	-0.80000
1.78360	7.25433	-25.27049	1	1488	7.00000	19.00000	-0.80000
2.73332	7.37908	-24.47294	1	1489	8.00000	19.00000	-0.80000
3.59713	7.46006	-23.39697	1	1490	9.00000	19.00000	-0.80000
4.37124	7.48181	-22.16031	1	1491	10.00000	19.00000	-0.80000
5.04918	7.43850	-20.65228	1	1492	11.00000	19.00000	-0.80000
5.61899	7.32864	-19.06646	1	1493	12.00000	19.00000	-0.80000
6.07324	7.14654	-16.78351	1	1494	13.00000	19.00000	-0.80000
6.42586	6.88213	-15.07699	1	1495	14.00000	19.00000	-0.80000
6.70251	6.52873	-13.51091	1	1496	15.00000	19.00000	-0.80000
6.90990	6.08810	-11.95584	1	1497	16.00000	19.00000	-0.80000
7.02373	5.57306	-10.32871	1	1498	17.00000	19.00000	-0.80000
7.00562	5.01160	-8.51426	1	1499	18.00000	19.00000	-0.80000
6.84055	4.44416	-6.82217	1	1500	19.00000	19.00000	-0.80000
6.55658	3.90796	-5.45176	1	1501	20.00000	19.00000	-0.80000
				1502	21.00000	19.00000	-0.80000