

# ALLIED EXPLORATION & GEOTECHNICS LIMITED

Head Office: Unit 25 Stella Gill Industrial Estate, Pelton Fell, Chester-le-Street, Co. Durham, DH2 2RG - Tel: 0191 387 4700 Fax: 0191 387 4710  
Regional Office: Unit 20, Business Development Centre, Eanam Wharf, Blackburn, BB1 5BL - Tel: 01772 735 300 Fax: 01772 735 999

## DETERMINATION OF THE CALIFORNIA BEARING RATIO

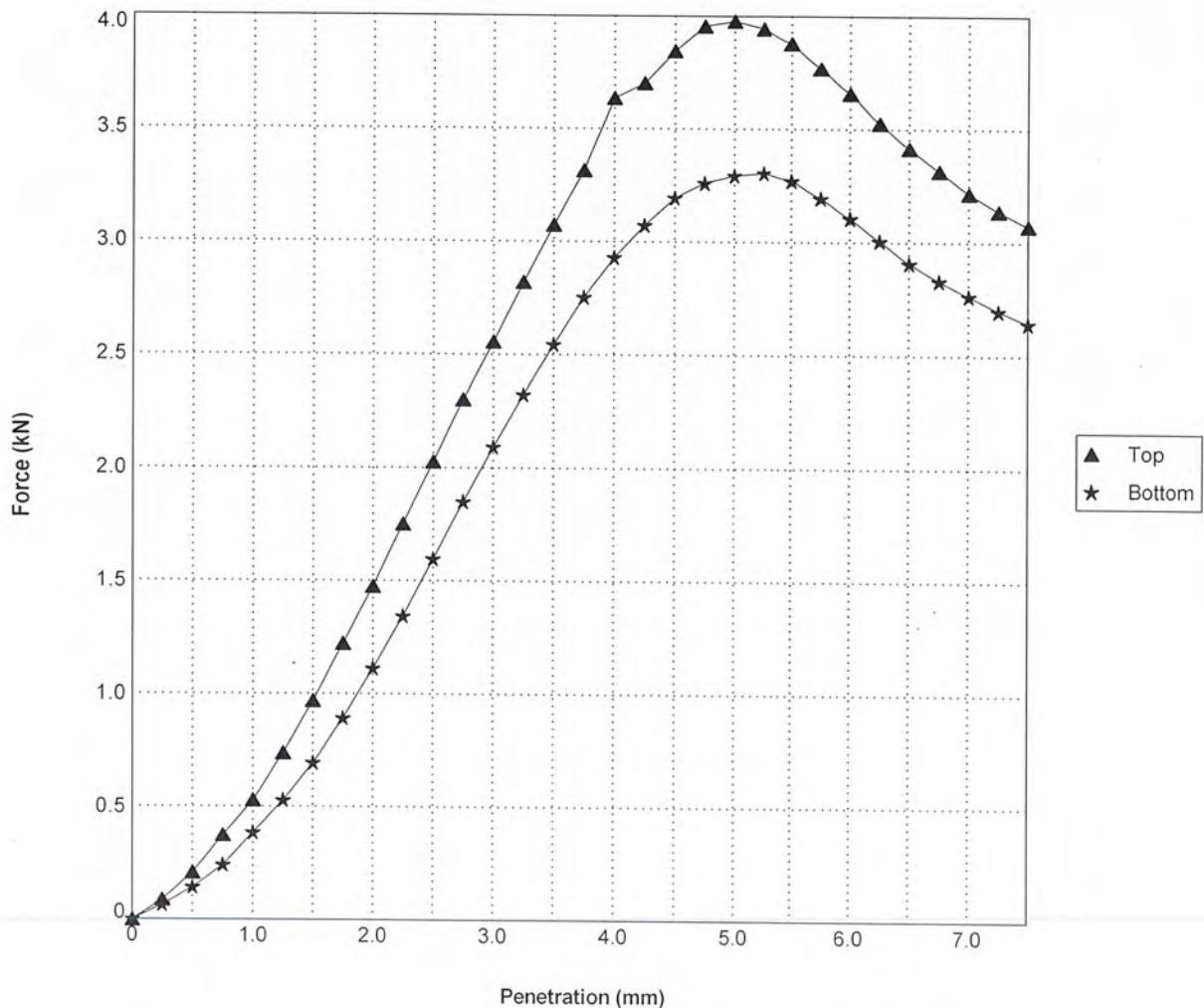
BS 1377 : Part 4 : 1990 and Part 2 : Clause 3.2 : 1990

Exploratory Hole No.- **MS\BH04**

Sample No.- **B18**

Depth (m)- **4.95**

"As Received" Moisture Content (%) :		Surcharge (Kg) :	6
Retained on 20mm (%) :	0.0	Seating Load (N) :	Top 50 / Bottom 50
Correction Needed :	No	Test Moisture Content (%) :	Top 20 / Bottom 20
Soaking Time (Days) :	7	Bulk Density (Mg/m <sup>3</sup> ) :	1.85
Swelling (mm) :	0.07	Dry Density (Mg/m <sup>3</sup> ) :	1.54
Date Tested :	16/08/2021	CBR Value (%) :	Top 20 / Bottom 17
Preparation Method :	2.5kg Compaction		
Remarks :			



For description of sample please refer to the Laboratory Sample Description Sheet

Contract Title :- Preliminary Onshore Ground Investigation for NZT

Client :- AECOM



Signed :- [Redacted]

Name :- **M. SELKIRK**

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Date of issue :- 31/08/2021

Certificate No :- CBR/4339/MS\BH04/B18/4.95/1

AEG Contract No. :- 4339



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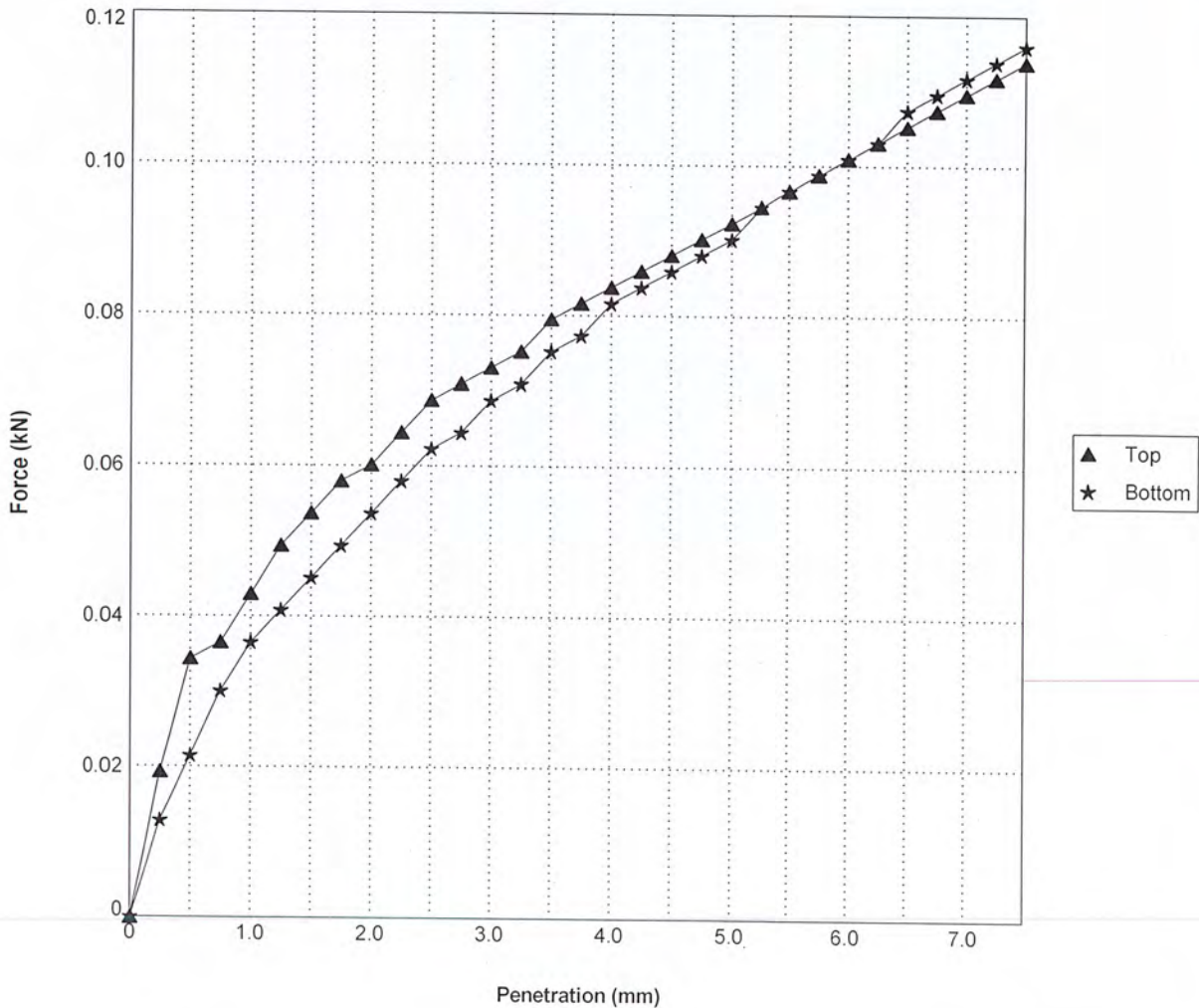
BS 1377 : Part 4 : 1990 and Part 2 : Clause 3.2 : 1990

Exploratory Hole No.- **MS\BH13**

Sample No.- **B19**

Depth (m)- **4.20**

"As Received" Moisture Content (%) :		Surcharge (Kg) :	6
Retained on 20mm (%) :	0.0	Seating Load (N) :	Top 10 / Bottom 10
Correction Needed :	No	Test Moisture Content (%) :	Top 33 / Bottom 35
Soaking Time (Days) :	8	Bulk Density (Mg/m <sup>3</sup> ) :	1.84
Swelling (mm) :	0.42	Dry Density (Mg/m <sup>3</sup> ) :	1.38
Date Tested :	04/08/2021	CBR Value (%) :	Top 0.52 / Bottom 0.47
Preparation Method :	2.5kg Compaction		
Remarks :			



For description of sample please refer to the Laboratory Sample Description Sheet

Contract Title :-

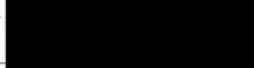
Preliminary Onshore Ground Investigation for NZT

Client :-

AECOM



Signed :-



Name :-

M. SELKIRK

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## DETERMINATION OF THE CALIFORNIA BEARING RATIO

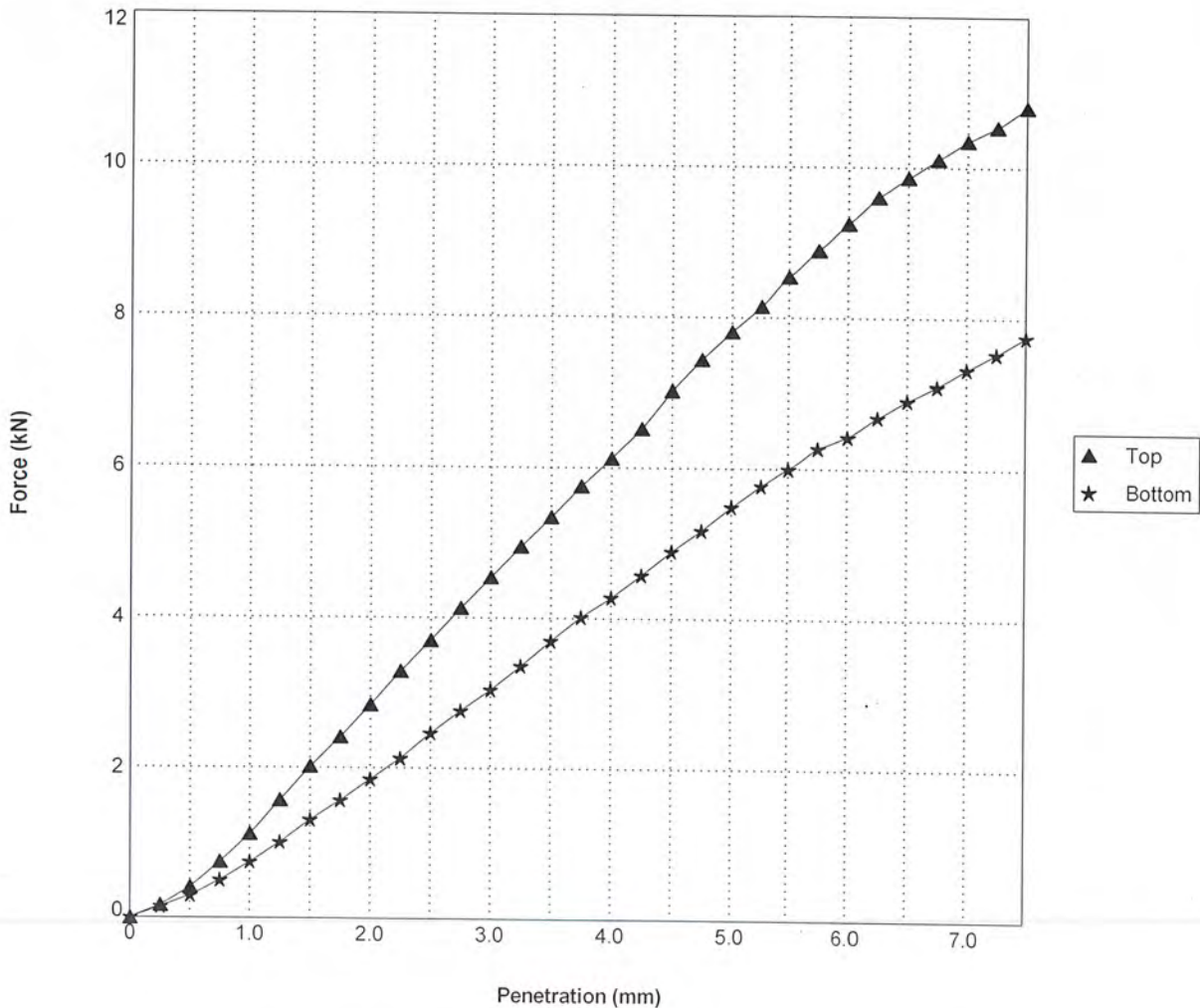
BS 1377 : Part 4 : 1990 and Part 2 : Clause 3.2 : 1990

Exploratory Hole No.- **MS\TP01**

Sample No.- **B3**

Depth (m)- **0.40**

"As Received" Moisture Content (%) :		Surcharge (Kg) :	6
Retained on 20mm (%) :	15.7	Seating Load (N) :	Top 250 / Bottom 250
Correction Needed :	No	Test Moisture Content (%) :	Top 18 / Bottom 18
Soaking Time (Days) :	7	Bulk Density (Mg/m <sup>3</sup> ) :	1.87
Swelling (mm) :	0.02	Dry Density (Mg/m <sup>3</sup> ) :	1.59
Date Tested :	16/08/2021	CBR Value (%) :	Top 39 / Bottom 28
Preparation Method :	2.5kg Compaction		
Remarks :			



For description of sample please refer to the Laboratory Sample Description Sheet

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Certificate No :- CBR/4339/MS\TP01/B3/0.40/1

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## DETERMINATION OF THE CALIFORNIA BEARING RATIO

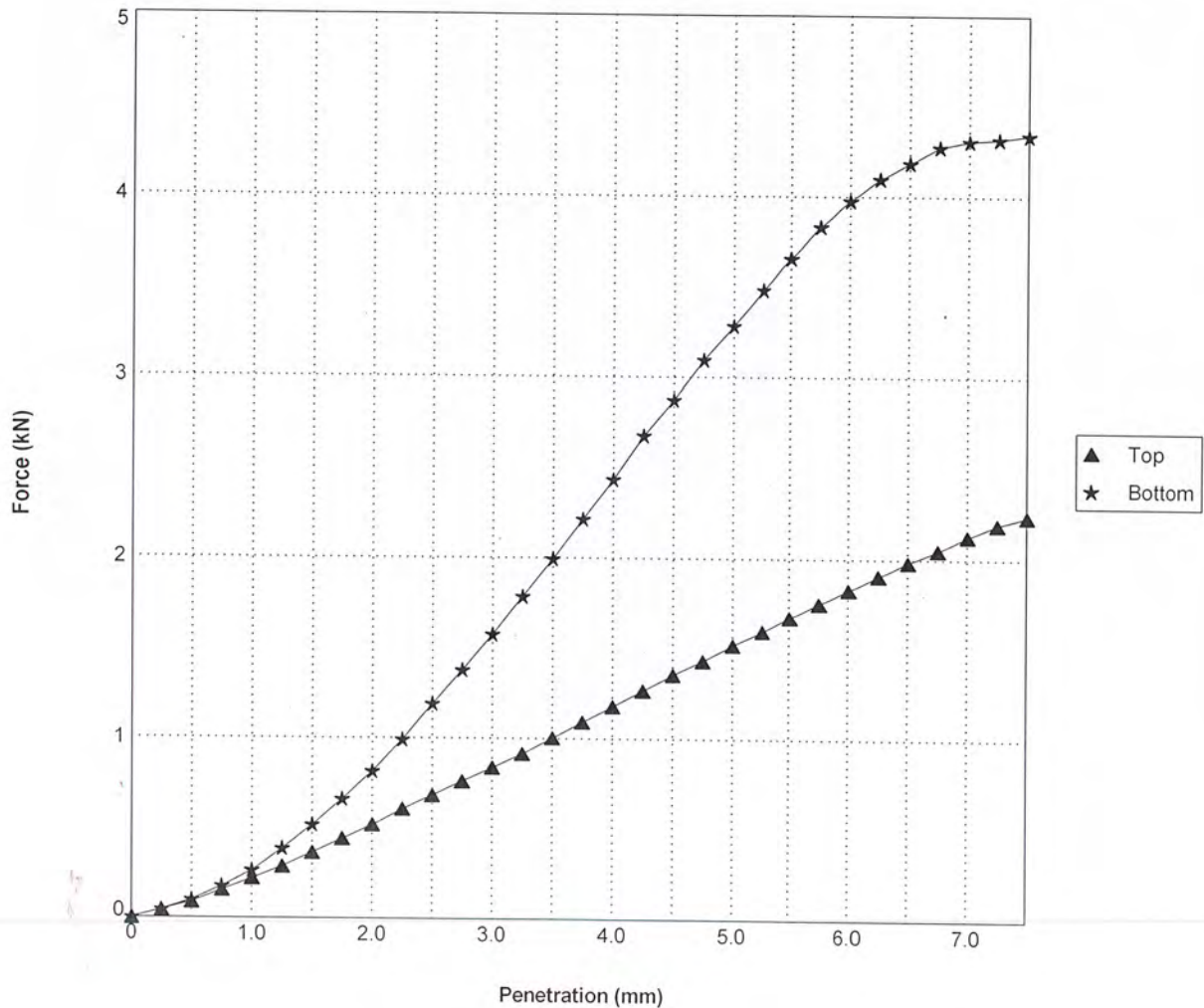
BS 1377 : Part 4 : 1990 and Part 2 : Clause 3.2 : 1990

Exploratory Hole No.- **MS\TP01**

Sample No.- **B17**

Depth (m)- **3.40**

"As Received" Moisture Content (%) :		Surcharge (Kg) :	6
Retained on 20mm (%) :	2.6	Seating Load (N) :	Top 50 / Bottom 50
Correction Needed :	No	Test Moisture Content (%) :	Top 21 / Bottom 19
Soaking Time (Days) :	6	Bulk Density (Mg/m <sup>3</sup> ) :	1.88
Swelling (mm) :	0.04	Dry Density (Mg/m <sup>3</sup> ) :	1.56
Date Tested :	17/08/2021	CBR Value (%) :	Top 7.6 / Bottom 16
Preparation Method :	2.5kg Compaction		
Remarks :			



For description of sample please refer to the Laboratory Sample Description Sheet

Contract Title :- Preliminary Onshore Ground Investigation for NZT

Client :- AECOM



Signed :- [Redacted Signature]

Name :- **M. SELKIRK**

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Date of issue :- 31/08/2021

Certificate No :- CBR/4339/MS\TP01/B17/3.40/1

AEG Contract No. :- **4339**



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## DETERMINATION OF THE CALIFORNIA BEARING RATIO

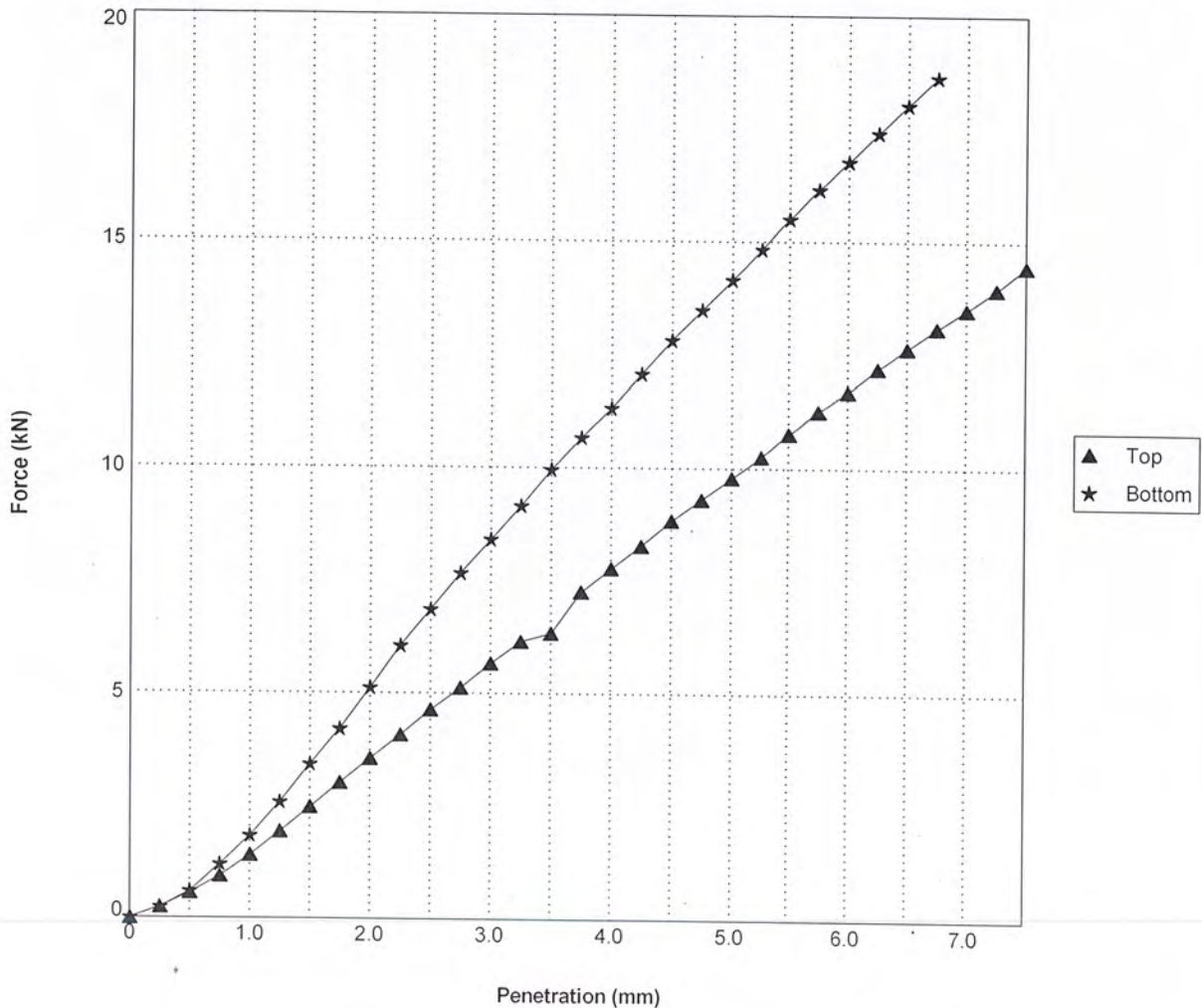
BS 1377 : Part 4 : 1990 and Part 2 : Clause 3.2 : 1990

Exploratory Hole No.- **MS\TP05**

Sample No.- **B3**

Depth (m)- **0.40**

"As Received" Moisture Content (%) :		Surcharge (Kg) :	6
Retained on 20mm (%) :	28.4	Seating Load (N) :	Top 250 / Bottom 250
Correction Needed :	No	Test Moisture Content (%) :	Top 16 / Bottom 16
Soaking Time (Days) :	8	Bulk Density (Mg/m <sup>3</sup> ) :	2.18
Swelling (mm) :	0.09	Dry Density (Mg/m <sup>3</sup> ) :	1.88
Date Tested :	18/08/2021	CBR Value (%) :	Top 49 / Bottom 71
Preparation Method :	2.5kg Compaction		
Remarks :			



For description of sample please refer to the Laboratory Sample Description Sheet

Contract Title :-

Preliminary Onshore Ground Investigation for NZT

Client :-

AECOM



Signed :-



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**M. SELKIRK**

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AEG Contract No. :-

**4339**



## Determination of One Dimensional Consolidation Properties



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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	LF\BH01	Sample	U54	Depth (m)	17.60m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	17.60m
	INITIAL	FINAL			
Height	18.6	15.5	mm	Particle Density (Assumed)	2.70
Diameter	74.93	74.93	mm		
Moisture Content	29.3	24.2	%	Degree of Saturation (%)	95.3
Wet Density	1.91	2.12	Mg/m <sup>3</sup>		
Dry Density	1.48	1.71	Mg/m <sup>3</sup>	Test Duration (Days)	10
				Date Tested	03/09/2021

Square Root of Time Fitting Method					
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio	
Initial				0.830	
0 - 50	0.768	.	23	0.760	
50 - 100	0.363	3.62	23	0.728	
100 - 200	0.276	1.73	24	0.680	
200 - 400	0.187	1.24	24	0.617	
400 - 800	0.110	1.27	25	0.546	
800 - 1600	0.063	1.53	25	0.468	
1600 - 3200	0.030	1.45	23	0.397	
3200 - 800	0.007	Swelling	23	0.421	
800 - 200	0.054	Swelling	23	0.467	
200 - 50	0.258	Swelling	23	0.524	

For sample description please refer to the Laboratory Sample Description Sheet.

Contract Title:			Client:		
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Date of Issue:	Certificate No:	AEG Contract No:			
20/09/2021	4339/T	4339			
					 1367

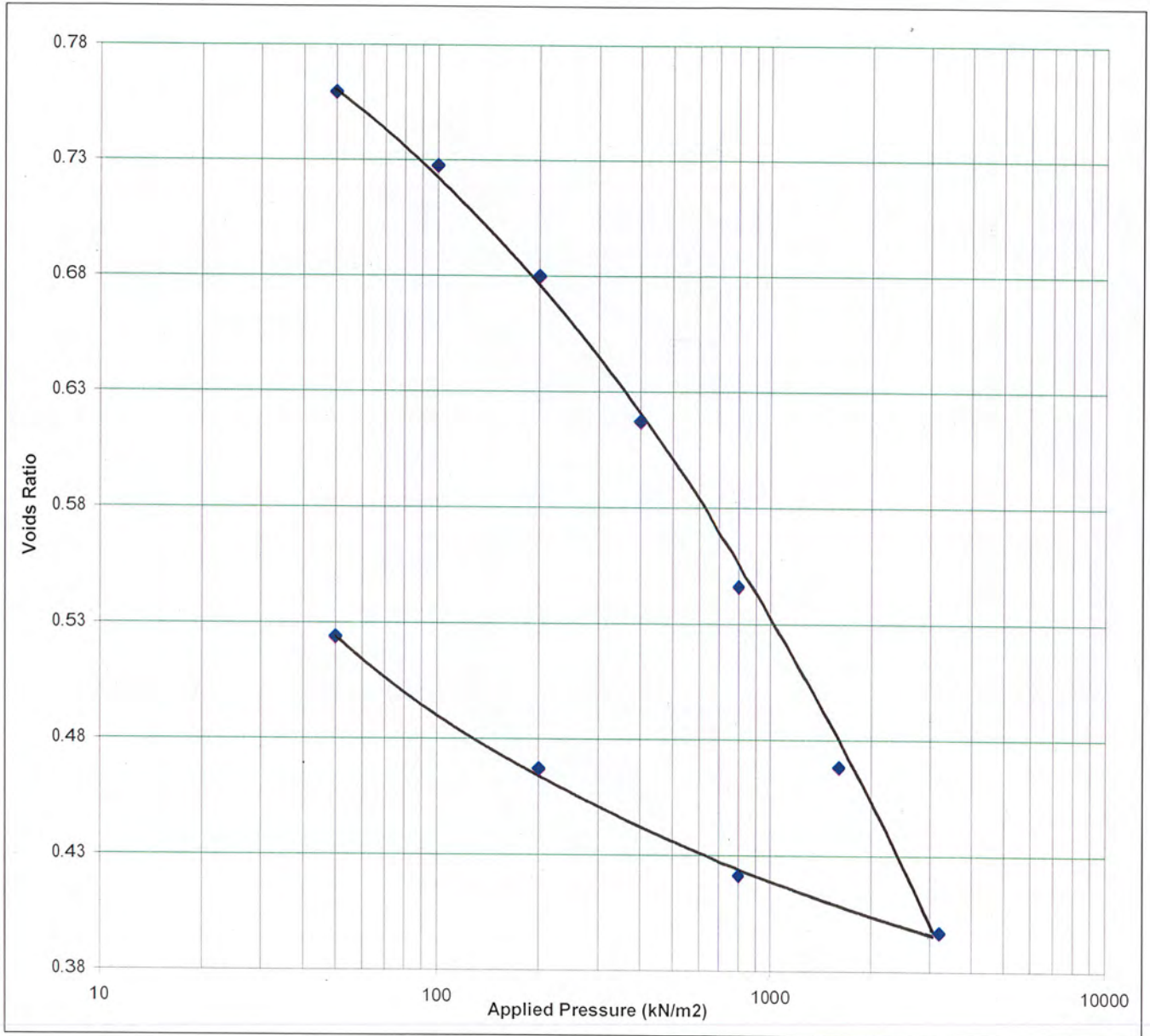
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES

BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	LF\BH01	Sample	U54	Depth (m)	17.60m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	17.60m



Contract Title: <b>Preliminary Onshore Ground Investigation For NZT</b>	Client: <b>AECOM</b>
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	Signed:	Name: <b>M. SELKIRK</b>	Page 2 of 2	
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

<b>Exploratory Hole No</b>	<b>LFJBH02</b>	<b>Sample</b>	<b>U53</b>	<b>Depth (m)</b>	<b>17.40m</b>
<b>Specimen Type</b>	<b>Undisturbed</b>	<b>Orientation</b>	<b>Vertical</b>	<b>Specific Depth (m)</b>	<b>17.80m</b>
	INITIAL	FINAL			
Height	18.9	16.5	mm	Particle Density (Assumed)	2.70
Diameter	75.09	75.09	mm		
Moisture Content	26.8	22.4	%	Degree of Saturation (%)	93.9
Wet Density	1.93	2.08	Mg/m <sup>3</sup>		
Dry Density	1.53	1.70	Mg/m <sup>3</sup>	Test Duration (Days)	10
				Date Tested	09/09/2021

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.770
0 - 50	0.423	.	25	0.733
50 - 100	0.315	2.73	25	0.706
100 - 200	0.200	2.60	23	0.671
200 - 400	0.152	1.45	23	0.621
400 - 800	0.094	1.10	23	0.559
800 - 1600	0.053	1.10	23	0.493
1600 - 3200	0.029	1.05	23	0.423
3200 - 800	0.007	Swelling	23	0.448
800 - 200	0.051	Swelling	23	0.492
200 - 50	0.232	Swelling	23	0.544

For sample description please refer to the Laboratory Sample Description Sheet.

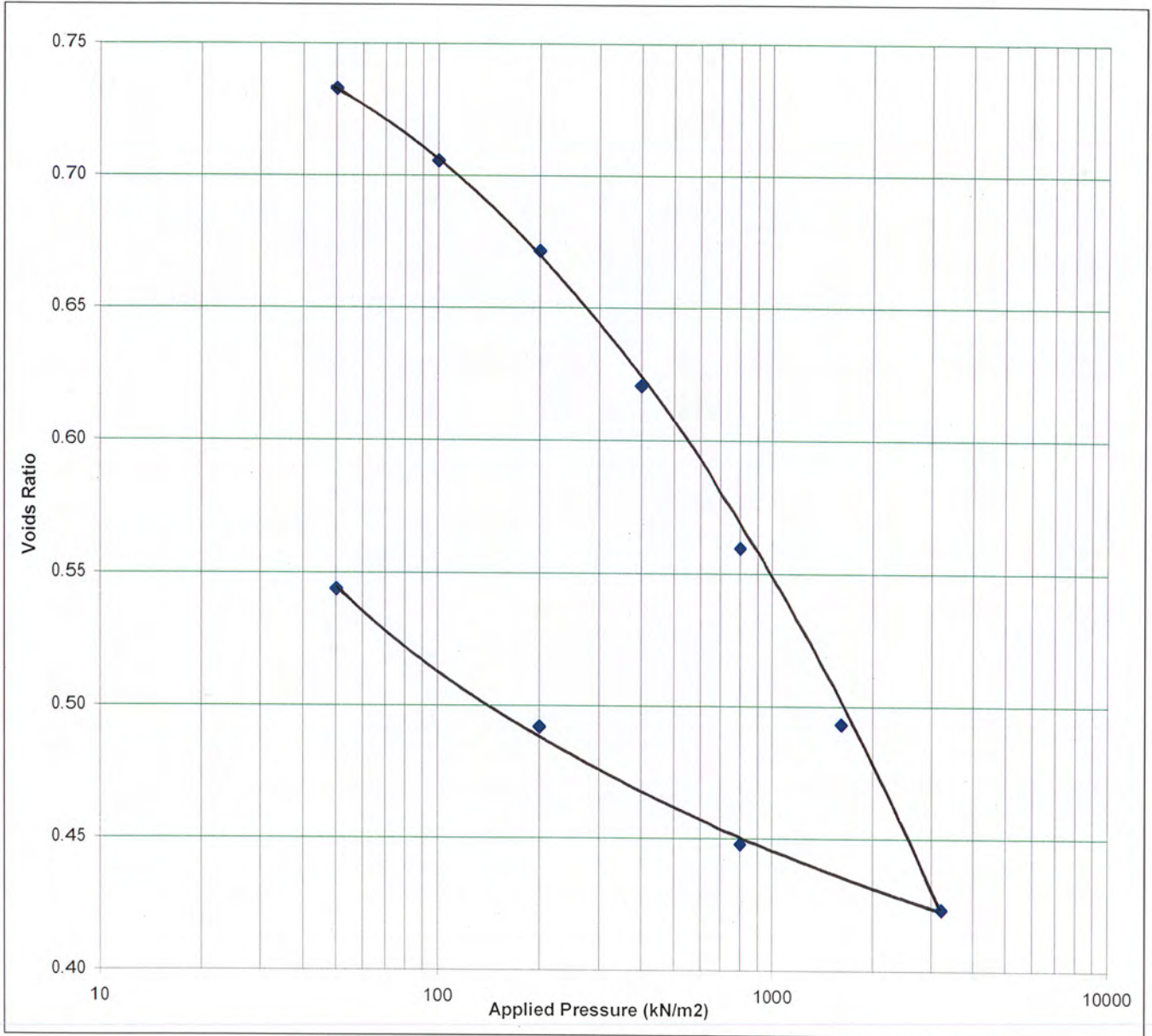
Contract Title:		Client:	
<b>Preliminary Onshore Ground Investigation For NZT</b>		<b>AECOM</b>	
	Signed:	Name:	Page 1 of 2
		M. SELKIRK	
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24/09/2021	4339/U	4339	1367

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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	LF BH02	Sample	U53	Depth (m)	17.40m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	17.80m



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	Signed: <div style="background-color: black; width: 100%; height: 20px;"></div>	Name: <b>M. SELKIRK</b>	Page 2 of 2
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	LF\BH02	Sample	U61	Depth (m)	21.00m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	21.05m
	INITIAL	FINAL			
Height	18.8	16.6	mm	Particle Density (Assumed)	2.70
Diameter	74.98	74.98	mm		
Moisture Content	16.8	15.3	%	Degree of Saturation (%)	93.3
Wet Density	2.12	2.30	Mg/m <sup>3</sup>		
Dry Density	1.82	1.99	Mg/m <sup>3</sup>	Test Duration (Days)	9
				Date Tested	19/08/2021

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.486
0 - 100	0.158	.	23	0.463
100 - 200	0.129	6.57	23	0.444
200 - 400	0.083	5.29	24	0.420
400 - 800	0.064	3.29	24	0.383
800 - 1600	0.040	2.74	24	0.339
1600 - 3200	0.023	2.32	23	0.290
3200 - 1600	0.003	Swelling	23	0.295
1600 - 800	0.009	Swelling	23	0.304
800 - 400	0.024	Swelling	23	0.317

For sample description please refer to the Laboratory Sample Description Sheet.

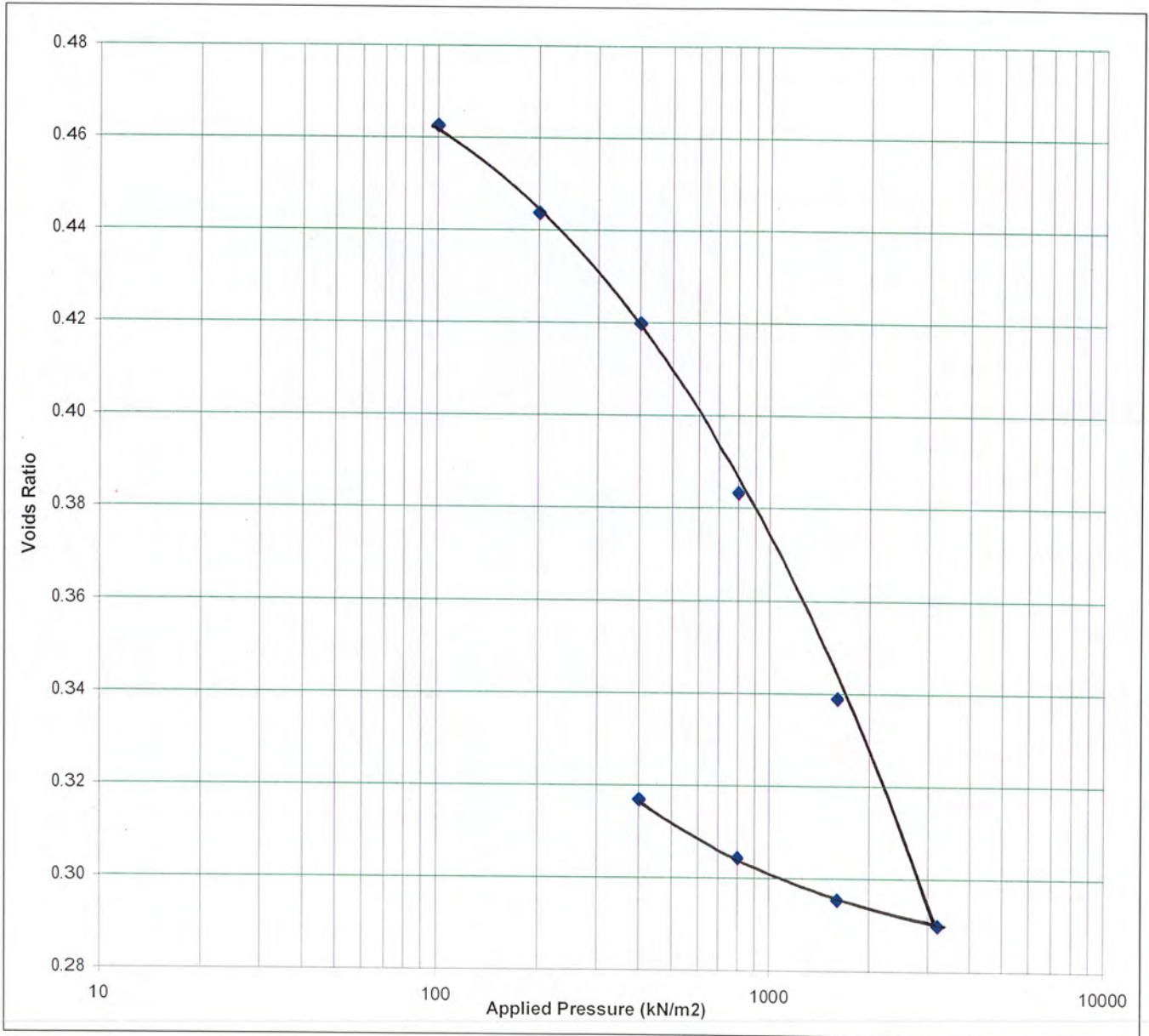
Contract Title:		Client:	
<b>Preliminary Onshore Ground Investigation For NZT</b>		<b>AECOM</b>	
	Signed: <div style="background-color: black; width: 100%; height: 20px; margin-top: 5px;"></div>	Name:  M. SELKIRK	Page 1 of 2
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	LF\BH02	Sample	U61	Depth (m)	21.00m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	21.05m



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	Signed:	Name: <b>M. SELKIRK</b>	Page 2 of 2	
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH03</b>	Sample	<b>UT1</b>	Depth (m)	<b>11.70m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>11.70m</b>
	INITIAL	FINAL			
Height	19.1	16.8	mm	Particle Density (Assumed)	2.70
Diameter	74.8	74.8	mm	Degree of Saturation (%)	99.2
Moisture Content	26.3	20.6	%	Test Duration (Days)	10
Wet Density	1.99	2.13	Mg/m <sup>3</sup>	Date Tested	09/08/2021
Dry Density	1.57	1.77	Mg/m <sup>3</sup>		

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.716
0 - 50	1.024	.	23	0.628
50 - 100	0.246	6.33	23	0.608
100 - 200	0.153	7.39	23	0.583
200 - 400	0.080	12.33	23	0.558
400 - 800	0.052	13.52	23	0.526
800 - 1600	0.028	11.38	23	0.492
1600 - 800	0.001	Swelling	23	0.493
800 - 400	0.004	Swelling	23	0.495
400 - 200	0.007	Swelling	23	0.497
200 - 50	0.045	Swelling	23	0.507

For sample description please refer to the Laboratory Sample Description Sheet.

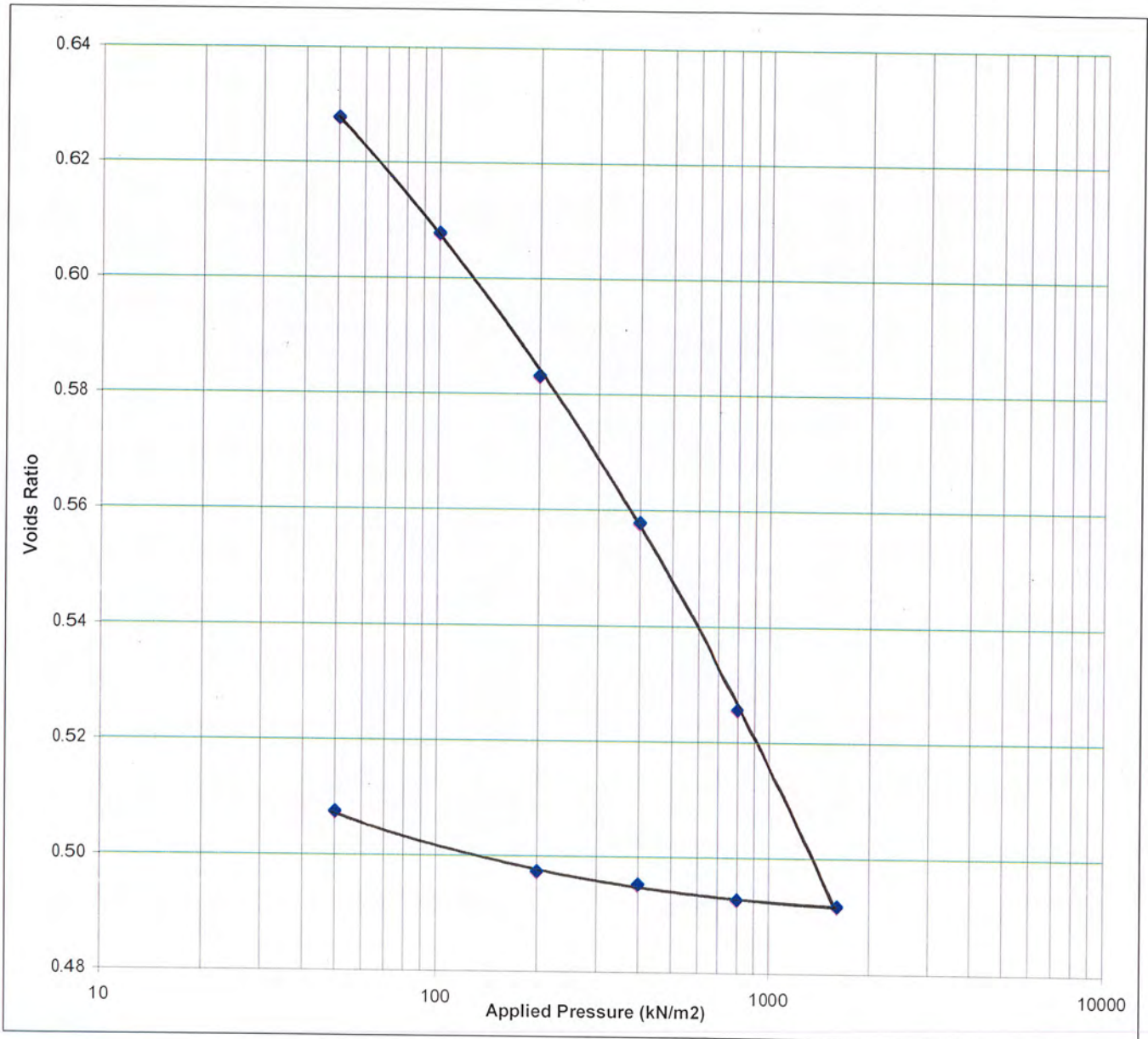
Contract Title:		Client:	
<b>Preliminary Onshore Ground Investigation For NZT</b>		<b>AECOM</b>	
Signed:	<div style="background-color: black; width: 100%; height: 40px;"></div>	Name:	Page 1 of 2
Date of Issue:	23/08/2021	Name:	M. SELKIRK
		Certificate No:	AEG Contract No:
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH03</b>	Sample	<b>UT1</b>	Depth (m)	<b>11.70m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>11.70m</b>



Contract Title: <b>Preliminary Onshore Ground Investigation For NZT</b>	Client: <b>AECOM</b>
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	Signed:	Name: <b>M. SELKIRK</b>	Page 2 of 2	
	Date of Issue: <b>23/08/2021</b>	Certificate No: <b>4339/H</b>		

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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	MS\BH04	Sample	UT8	Depth (m)	13.20m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	13.20m
	INITIAL	FINAL			
Height	18.8	15.8	mm	Particle Density (Assumed)	2.70
Diameter	74.93	74.93	mm	Degree of Saturation (%)	93.5
Moisture Content	26.9	22.7	%	Test Duration (Days)	10
Wet Density	1.93	2.12	Mg/m <sup>3</sup>	Date Tested	19/08/2021
Dry Density	1.52	1.72	Mg/m <sup>3</sup>		

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.777
0 - 50	1.046	.	23	0.684
50 - 100	0.424	4.41	23	0.648
100 - 200	0.242	4.81	24	0.608
200 - 400	0.150	6.46	24	0.560
400 - 800	0.082	8.24	24	0.509
800 - 1600	0.047	9.93	23	0.452
1600 - 800	0.003	Swelling	23	0.456
800 - 400	0.009	Swelling	23	0.461
400 - 200	0.027	Swelling	23	0.469
200 - 50	0.108	Swelling	23	0.492

For sample description please refer to the Laboratory Sample Description Sheet.

Contract Title:		Client:	
Preliminary Onshore Ground Investigation For NZT		AECOM	
	Signed:	Name:	Page 1 of 2
	[Redacted Signature]	M. SELKIRK	
Date of Issue:	Certificate No:	AEG Contract No:	
06/09/2021	4339/L	4339	1367

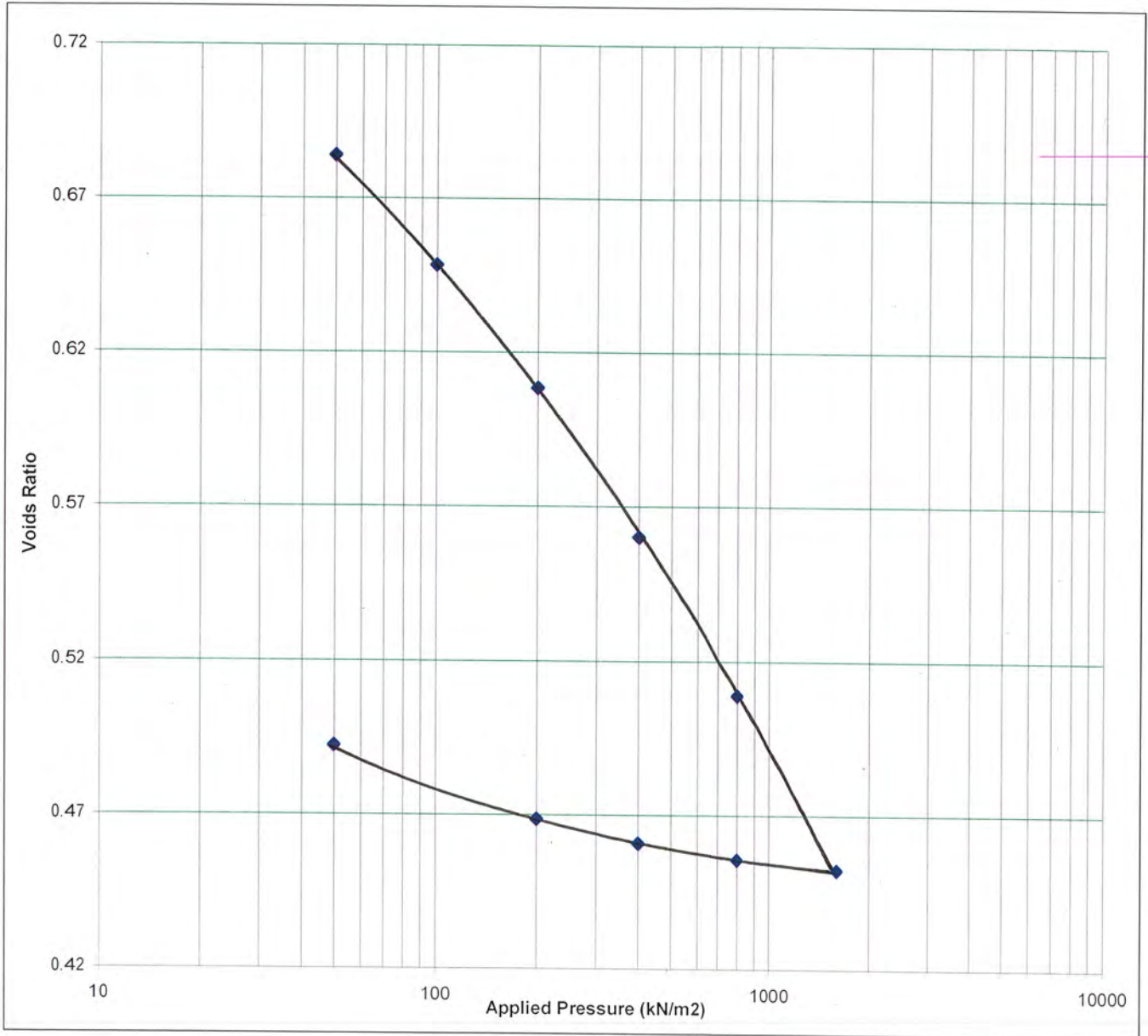
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES

BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH04</b>	Sample	<b>UT8</b>	Depth (m)	<b>13.20m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>13.20m</b>



Contract Title:  
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Client:  
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH08</b>	Sample	<b>UT1</b>	Depth (m)	<b>8.70m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>9.10m</b>
	INITIAL	FINAL			
Height	18.7	13.0	mm	Particle Density (Assumed)	2.70
Diameter	74.88	74.88	mm	Degree of Saturation (%)	86.4
Moisture Content	46.0	32.3	%	Test Duration (Days)	9
Wet Density	1.62	1.95	Mg/m <sup>3</sup>	Date Tested	06/08/2021
Dry Density	1.11	1.47	Mg/m <sup>3</sup>		

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				1.438
0 - 100	0.851	.	23	1.230
100 - 200	0.468	0.18	23	1.126
200 - 400	0.365	0.15	23	0.971
400 - 800	0.220	0.13	23	0.797
800 - 1600	0.124	0.18	23	0.620
1600 - 3200	0.050	0.15	23	0.490
3200 - 800	0.012	Swelling	23	0.534
800 - 400	0.067	Swelling	23	0.575
400 - 100	0.235	Swelling	24	0.686

For sample description please refer to the Laboratory Sample Description Sheet.

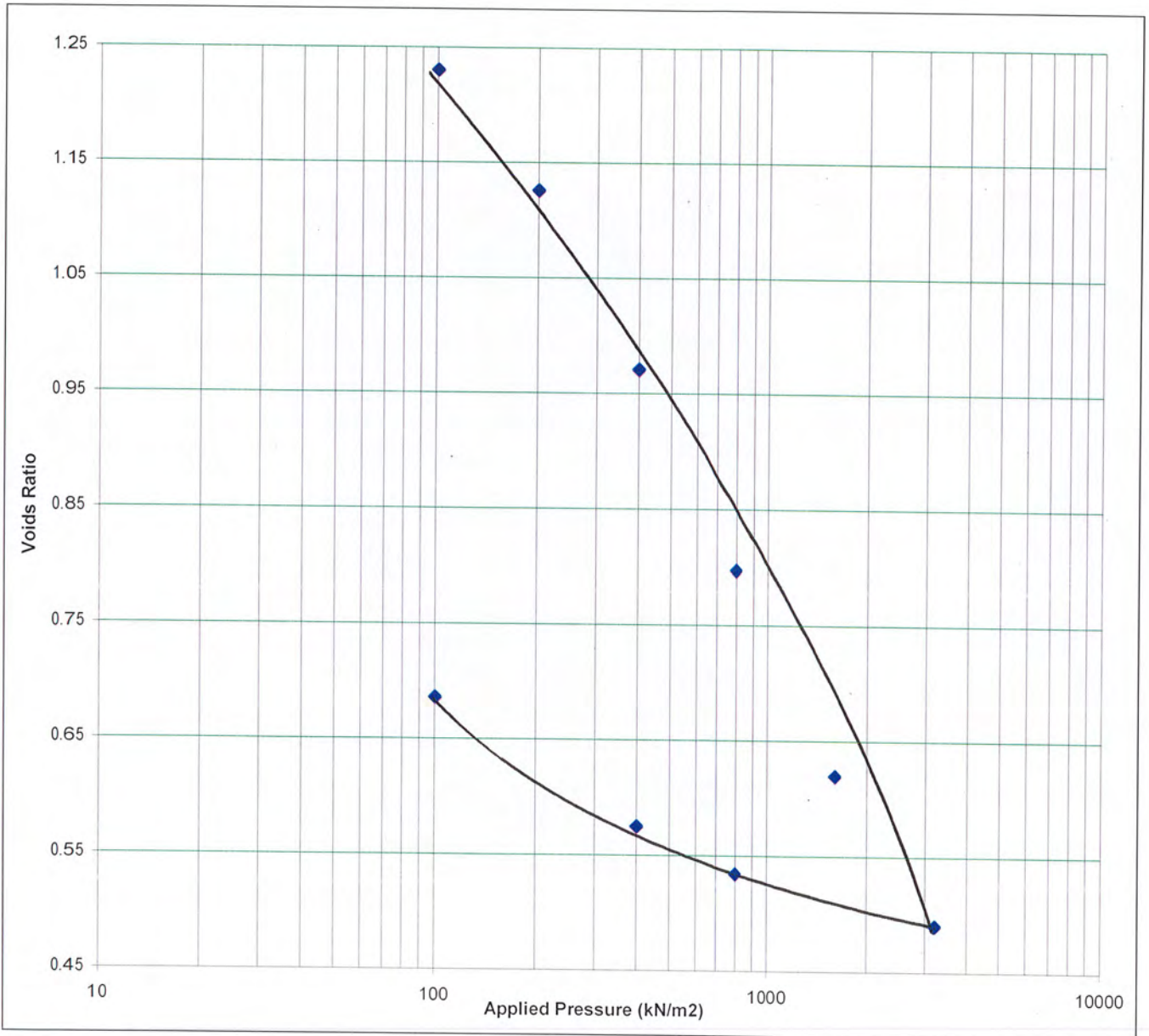
Contract Title:		Client:	
<b>Preliminary Onshore Ground Investigation For NZT</b>		<b>AECOM</b>	
	Signed:	Name:	Page 1 of 2
		M. SELKIRK	
Date of Issue:	Certificate No:	AEG Contract No:	
27/08/2021	4339/I	4339	1367

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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	MS\BH08	Sample	UT1	Depth (m)	8.70m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	9.10m



Contract Title: <b>Preliminary Onshore Ground Investigation For NZT</b>	Client: <b>AECOM</b>
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	Signed: [Redacted Signature]	Name: <b>M. SELKIRK</b>	Page 2 of 2	
	Date of Issue: <b>27/08/2021</b>	Certificate No: <b>4339/1</b>	AEG Contract No: <b>4339</b>	

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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

<b>Exploratory Hole No</b>	<b>MS\BH08</b>	<b>Sample</b>	<b>UT2</b>	<b>Depth (m)</b>	<b>14.70m</b>
<b>Specimen Type</b>	<b>Undisturbed</b>	<b>Orientation</b>	<b>Vertical</b>	<b>Specific Depth (m)</b>	<b>14.85m</b>
	<b>INITIAL</b>	<b>FINAL</b>			
Height	18.7	15.9	mm	Particle Density (Assumed)	2.70
Diameter	74.93	74.93	mm	Degree of Saturation (%)	99.6
Moisture Content	23.7	17.1	%	Test Duration (Days)	9
Wet Density	2.03	2.22	Mg/m <sup>3</sup>	Date Tested	06/08/2021
Dry Density	1.64	1.90	Mg/m <sup>3</sup>		

<b>Square Root of Time Fitting Method</b>				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.642
0 - 100	0.647	.	23	0.536
100 - 200	0.155	4.59	23	0.512
200 - 400	0.088	4.81	23	0.486
400 - 800	0.051	7.23	23	0.456
800 - 1600	0.031	6.91	23	0.420
1600 - 3200	0.019	10.20	23	0.376
3200 - 800	0.002	Swelling	23	0.383
800 - 400	0.006	Swelling	23	0.386
400 - 100	0.019	Swelling	23	0.394

For sample description please refer to the Laboratory Sample Description Sheet.

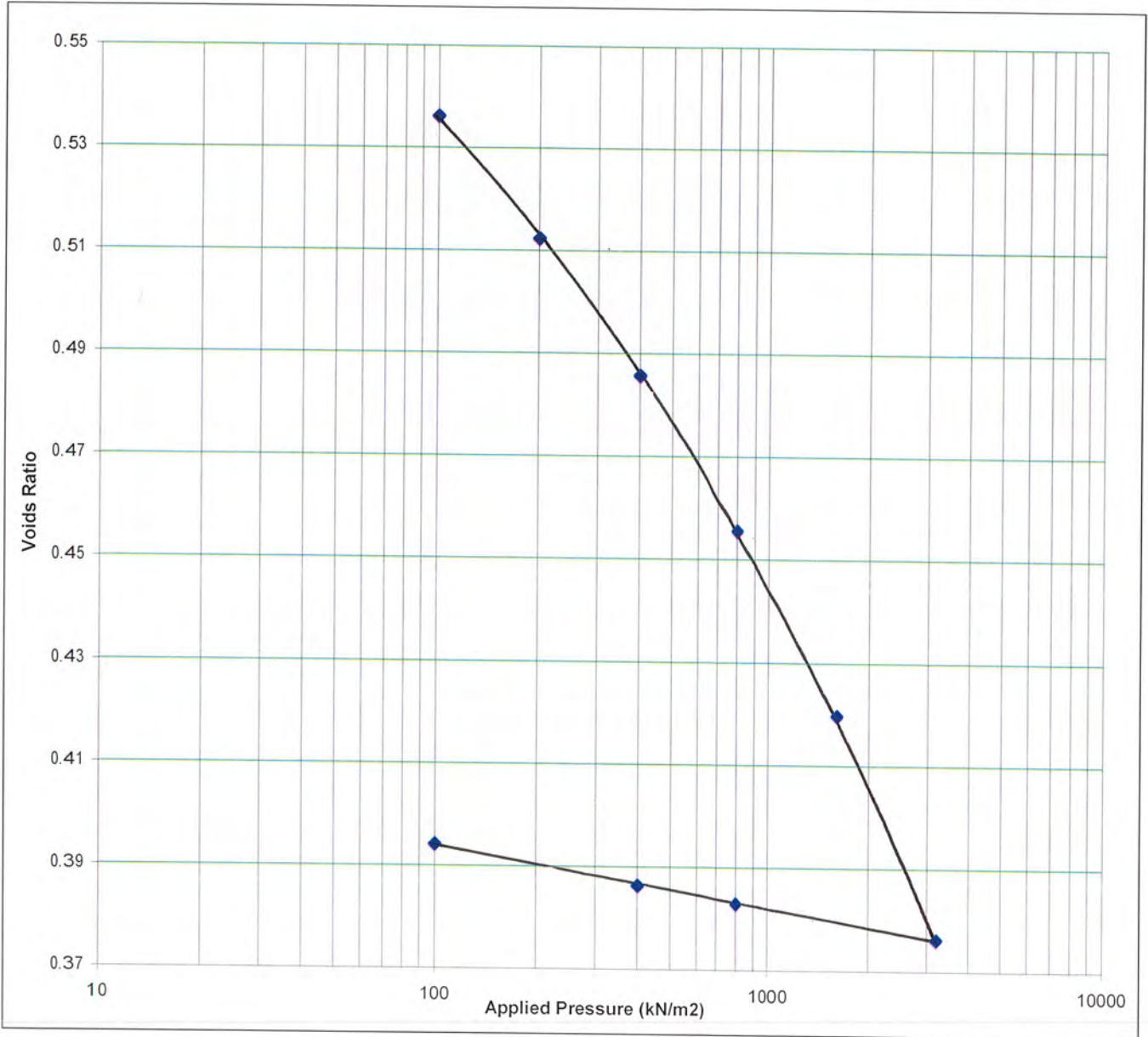
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<b>Preliminary Onshore Ground Investigation For NZT</b>		<b>AECOM</b>	
	Signed: <div style="background-color: black; width: 100px; height: 30px; margin: 5px 0;"></div>	Name:  <b>M. SELKIRK</b>	Page 1 of 2
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH08</b>	Sample	<b>UT2</b>	Depth (m)	<b>14.70m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>14.85m</b>



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**Preliminary Onshore Ground Investigation For NZT**

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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

<b>Exploratory Hole No</b>	<b>MS\BH08</b>	<b>Sample</b>	<b>U59</b>	<b>Depth (m)</b>	<b>20.35m</b>
<b>Specimen Type</b>	<b>Undisturbed</b>	<b>Orientation</b>	<b>Vertical</b>	<b>Specific Depth (m)</b>	<b>20.60m</b>
	INITIAL	FINAL			
Height	18.9	16.6	mm	Particle Density (Assumed)	2.70
Diameter	75.15	75.15	mm	Degree of Saturation (%)	95.8
Moisture Content	26.7	22.2	%	Test Duration (Days)	9
Wet Density	1.95	2.11	Mg/m <sup>3</sup>	Date Tested	06/08/2021
Dry Density	1.54	1.72	Mg/m <sup>3</sup>		

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.752
0 - 200	0.219	.	23	0.676
200 - 400	0.104	2.16	23	0.641
400 - 800	0.072	2.06	23	0.593
800 - 1600	0.049	2.25	23	0.532
1600 - 3200	0.029	2.19	23	0.462
3200 - 1600	0.005	Swelling	23	0.473
1600 - 800	0.015	Swelling	23	0.491
800 - 400	0.038	Swelling	23	0.513
400 - 200	0.081	Swelling	23	0.538

For sample description please refer to the Laboratory Sample Description Sheet.

Contract Title:		Client:	
<b>Preliminary Onshore Ground Investigation For NZT</b>		<b>AECOM</b>	
	Signed: <div style="background-color: black; width: 100px; height: 30px; margin-top: 5px;"></div>	Name:  <b>M. SELKIRK</b>	Page 1 of 2
Date of Issue:  23/08/2021	Certificate No:  4339/C	AEG Contract No:  4339	
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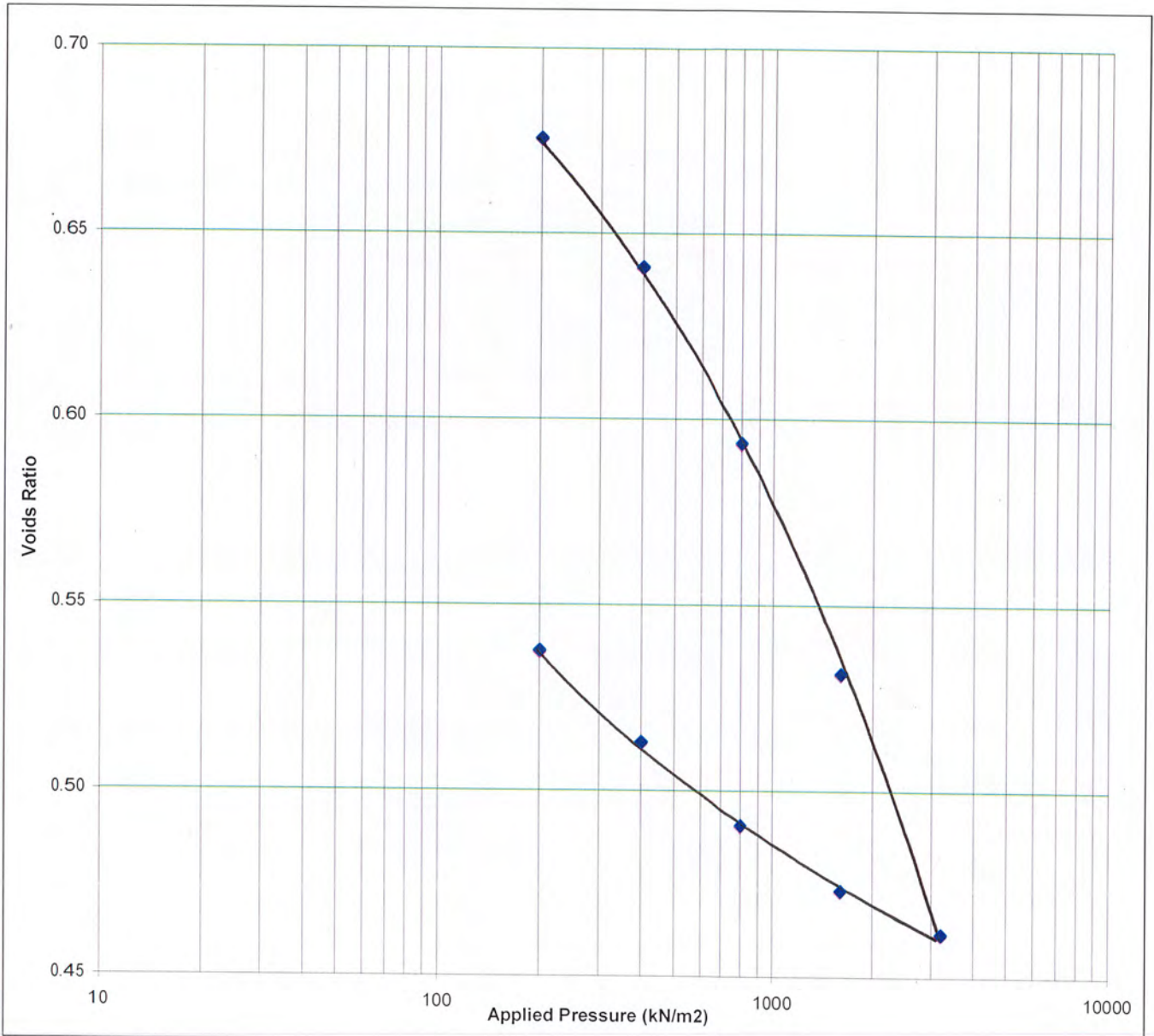
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES

BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	MS\BH08	Sample	U59	Depth (m)	20.35m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	20.60m



Contract Title: <b>Preliminary Onshore Ground Investigation For NZT</b>	Client: <b>AECOM</b>
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES

BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH08</b>	Sample	<b>U63</b>	Depth (m)	<b>23.30m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>23.48m</b>
	INITIAL	FINAL			
Height	18.7	16.8	mm	Particle Density (Assumed)	2.70
Diameter	75.02	75.02	mm	Degree of Saturation (%)	99.5
Moisture Content	16.7	12.8	%	Test Duration (Days)	9
Wet Density	2.17	2.35	Mg/m <sup>3</sup>	Date Tested	06/08/2021
Dry Density	1.86	2.08	Mg/m <sup>3</sup>		

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.453
0 - 200	0.186	.	23	0.399
200 - 400	0.089	5.26	23	0.375
400 - 800	0.060	7.35	23	0.342
800 - 1600	0.033	4.79	23	0.306
1600 - 3200	0.018	3.88	23	0.268
3200 - 1600	0.003	Swelling	23	0.273
1600 - 800	0.009	Swelling	23	0.282
800 - 400	0.021	Swelling	23	0.293
400 - 200	0.050	Swelling	23	0.306

For sample description please refer to the Laboratory Sample Description Sheet.

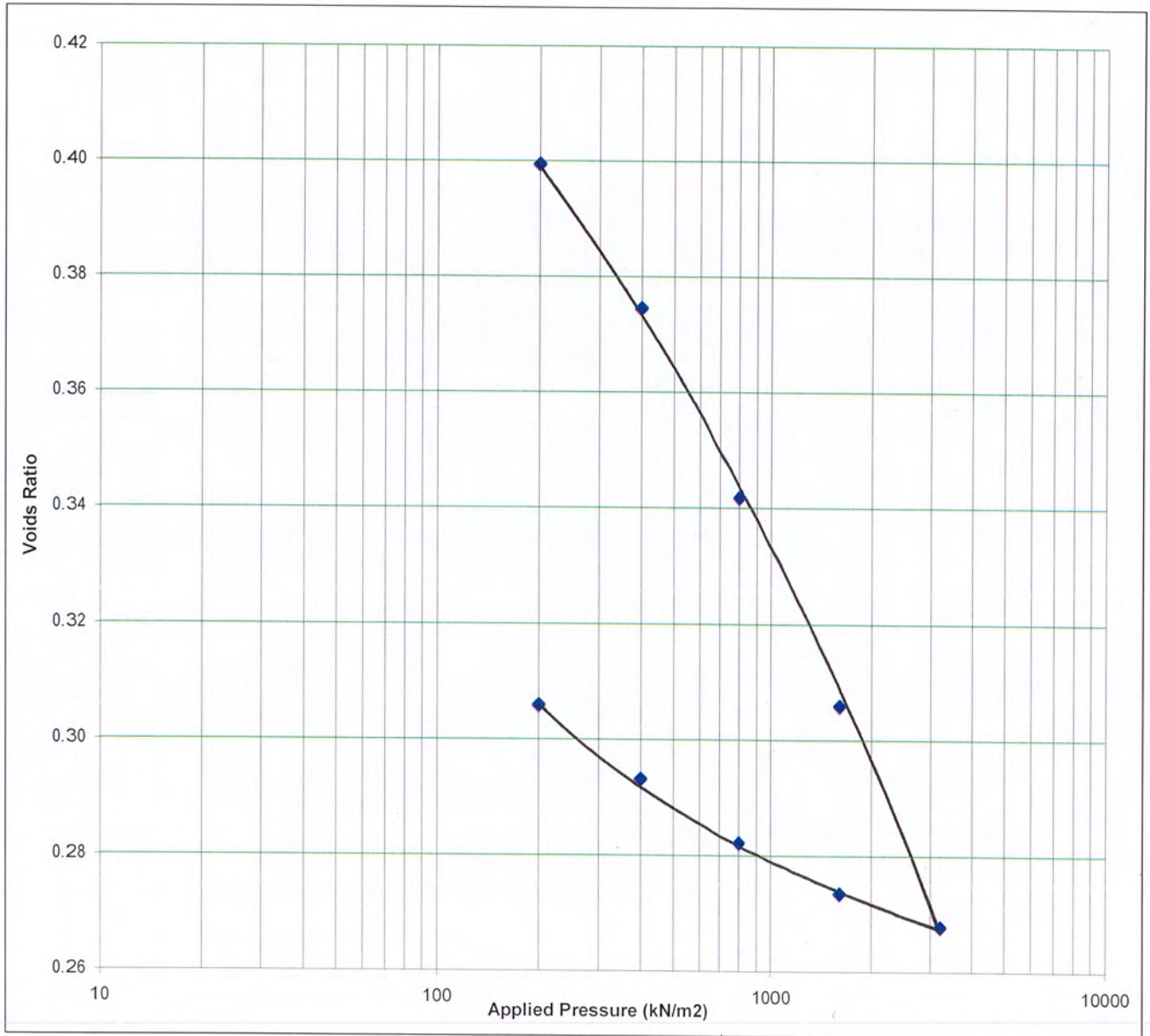
Contract Title:			Client:		
<b>Preliminary Onshore Ground Investigation For NZT</b>			<b>AECOM</b>		
	Signed:	Name:		Page 1 of 2	
		<b>M. SELKIRK</b>			
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23/08/2021	4339/D	4339		1367	

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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH08</b>	Sample	<b>U63</b>	Depth (m)	<b>23.30m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>23.48m</b>



Contract Title:  
**Preliminary Onshore Ground Investigation For  
 NZT**

Client:  
**AECOM**



Signed: [Redacted Signature]

Name:  
**M. SELKIRK**

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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	MS\BH10	Sample	U30	Depth (m)	11.70m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	11.70m
	INITIAL	FINAL			
Height	19.0	14.5	mm	Particle Density (Assumed)	2.70
Diameter	75	75	mm		
Moisture Content	35.4	23.4	%	Degree of Saturation (%)	99.9
Wet Density	1.87	2.16	Mg/m <sup>3</sup>		
Dry Density	1.38	1.75	Mg/m <sup>3</sup>	Test Duration (Days)	10
				Date Tested	19/08/2021

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.957
0 - 50	1.791	.	23	0.782
50 - 100	0.647	0.92	23	0.724
100 - 200	0.348	1.13	24	0.664
200 - 400	0.213	1.05	24	0.593
400 - 800	0.111	1.24	24	0.522
800 - 1600	0.062	1.56	23	0.447
1600 - 800	0.004	Swelling	23	0.451
800 - 400	0.012	Swelling	23	0.458
400 - 200	0.035	Swelling	23	0.468
200 - 50	0.152	Swelling	23	0.502

For sample description please refer to the Laboratory Sample Description Sheet.

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	Signed: <div style="background-color: black; width: 150px; height: 30px; margin: 5px 0;"></div>	Name: <b>M. SELKIRK</b>		Page 1 of 2
	Date of Issue: 06/09/2021	Certificate No: 4339/K	AEG Contract No: 4339	
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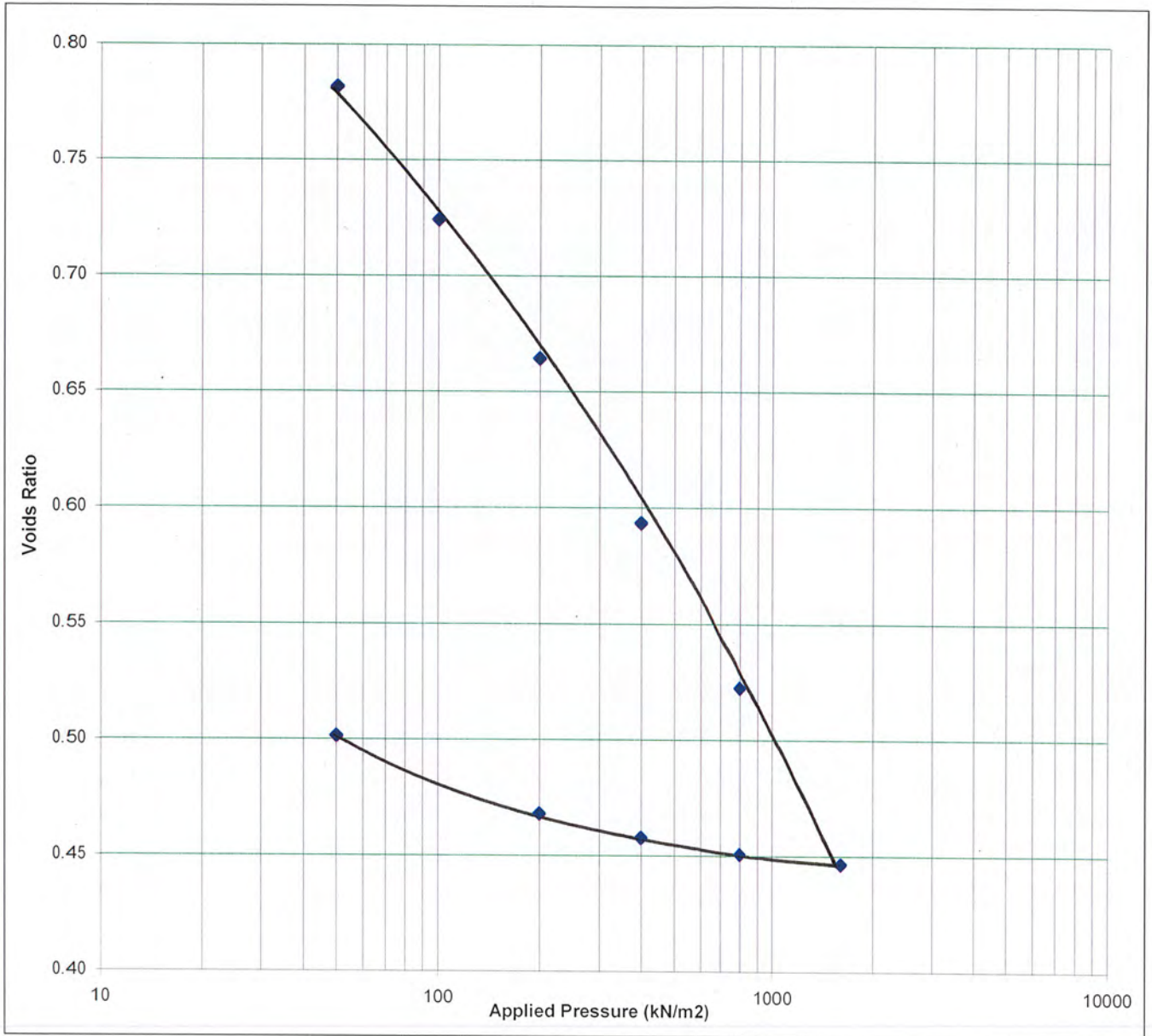
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES

BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH10</b>	Sample	<b>U30</b>	Depth (m)	<b>11.70m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>11.70m</b>



Contract Title:  
**Preliminary Onshore Ground Investigation For NZT**

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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	MS\BH11	Sample	UT1	Depth (m)	13.20m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	13.57m
	INITIAL	FINAL			
Height	18.8	15.5	mm	Particle Density (Assumed)	2.70
Diameter	74.94	74.94	mm	Degree of Saturation (%)	99.7
Moisture Content	32.4	23.0	%	Test Duration (Days)	10
Wet Density	1.90	2.10	Mg/m <sup>3</sup>	Date Tested	06/08/2021
Dry Density	1.44	1.71	Mg/m <sup>3</sup>		

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.878
0 - 50	1.187	.	23	0.766
50 - 100	0.421	2.31	23	0.729
100 - 200	0.281	2.46	23	0.680
200 - 400	0.165	2.45	23	0.625
400 - 800	0.093	4.21	23	0.565
800 - 1600	0.054	4.58	23	0.497
1600 - 800	0.004	Swelling	23	0.502
800 - 400	0.013	Swelling	23	0.509
400 - 200	0.035	Swelling	23	0.520
200 - 50	0.144	Swelling	23	0.553

For sample description please refer to the Laboratory Sample Description Sheet.

Contract Title:		Client:	
<b>Preliminary Onshore Ground Investigation For NZT</b>		<b>AECOM</b>	
	Signed: <div style="background-color: black; width: 100%; height: 20px; margin-top: 5px;"></div>	Name: <p style="text-align: center; margin-top: 10px;">M. SELKIRK</p>	Page 1 of 2
Date of Issue: <p style="text-align: center; margin-top: 5px;">23/08/2021</p>	Certificate No: <p style="text-align: center; margin-top: 5px;">4339/B</p>	AEG Contract No: <p style="text-align: center; margin-top: 5px;">4339</p>	 <p style="margin-top: 5px;">1367</p>

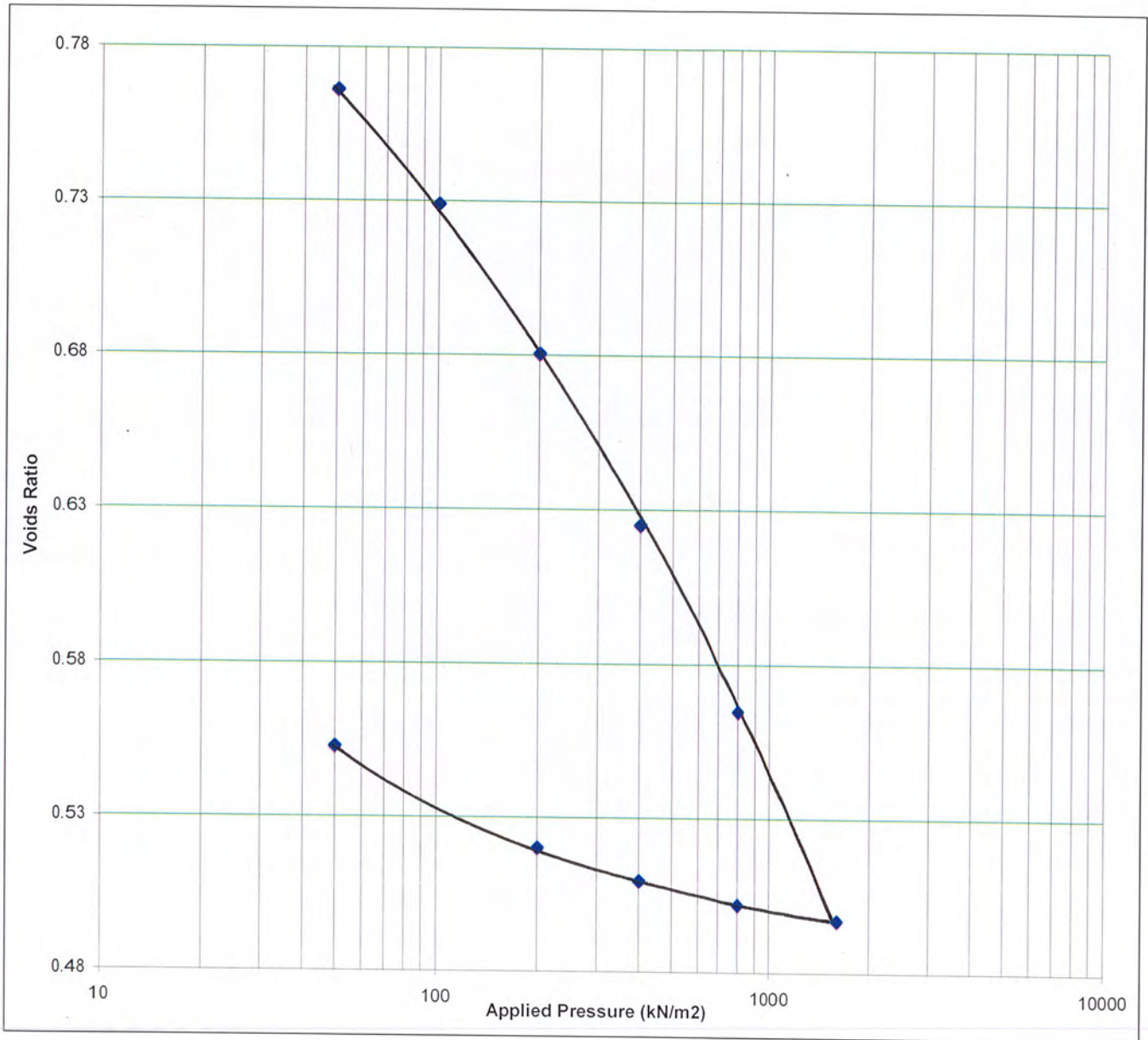
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES

BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH11</b>	Sample	<b>UT1</b>	Depth (m)	<b>13.20m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>13.57m</b>



Contract Title: **Preliminary Onshore Ground Investigation For NZT**

Client: **AECOM**



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Name: **M. SELKIRK**

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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

<b>Exploratory Hole No</b>	<b>MS\BH11</b>	<b>Sample</b>	<b>U51</b>	<b>Depth (m)</b>	<b>15.90m</b>
<b>Specimen Type</b>	<b>Undisturbed</b>	<b>Orientation</b>	<b>Vertical</b>	<b>Specific Depth (m)</b>	<b>16.00m</b>
	INITIAL	FINAL			
Height	18.5	16.7	mm	Particle Density (Assumed)	2.70
Diameter	74.95	74.95	mm	Degree of Saturation (%)	99.9
Moisture Content	21.8	21.8	%	Test Duration (Days)	9
Wet Density	2.07	2.26	Mg/m <sup>3</sup>	Date Tested	09/08/2021
Dry Density	1.70	1.85	Mg/m <sup>3</sup>		

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.589
0 - 100	0.038	.	23	0.583
100 - 200	0.098	17.41	23	0.568
200 - 400	0.063	2.24	23	0.548
400 - 800	0.050	1.27	23	0.517
800 - 1600	0.056	0.51	23	0.449
1600 - 3200	0.046	0.73	23	0.343
3200 - 800	0.008	Swelling	23	0.370
800 - 400	0.035	Swelling	23	0.389
400 - 100	0.102	Swelling	23	0.431

For sample description please refer to the Laboratory Sample Description Sheet.

Contract Title:			Client:		
<b>Preliminary Onshore Ground Investigation For NZT</b>			<b>AECOM</b>		
	Signed:	Name:		Page 1 of 2	
		M. SELKIRK			
Date of Issue:	Certificate No:	AEG Contract No:			
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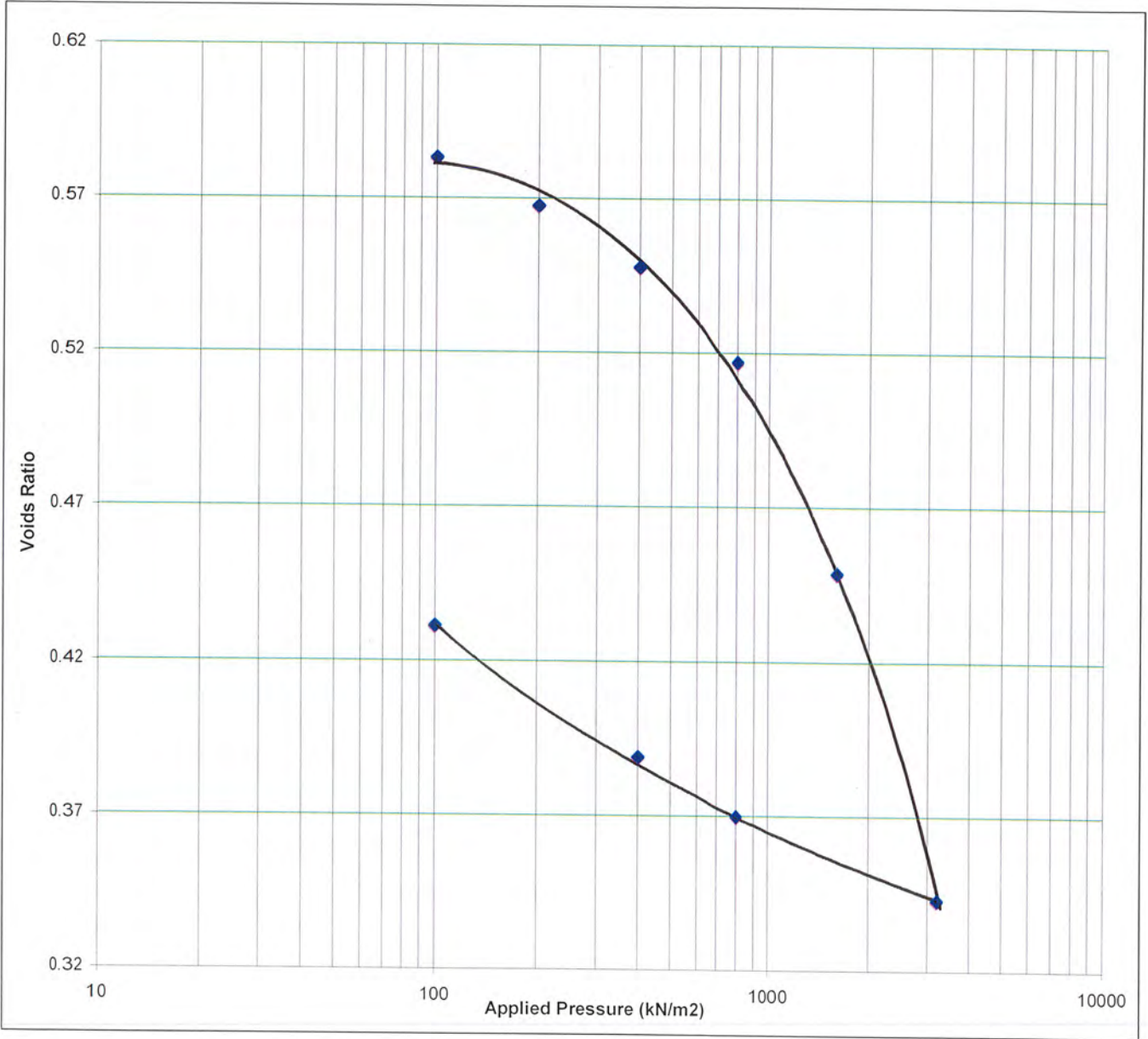
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES

BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH11</b>	Sample	<b>U51</b>	Depth (m)	<b>15.90m</b>
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	<b>16.00m</b>



Contract Title:  
**Preliminary Onshore Ground Investigation For NZT**

Client:  
**AECOM**



Signed: [Redacted Signature]

Name:  
**M. SELKIRK**

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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH11</b>	Sample	<b>U55</b>	Depth (m)	<b>17.55m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>17.90m</b>
	INITIAL	FINAL			
Height	18.4	16.7	mm	Particle Density (Assumed)	2.70
Diameter	75.05	75.05	mm		
Moisture Content	18.0	17.1	%	Degree of Saturation (%)	94.7
Wet Density	2.11	2.26	Mg/m <sup>3</sup>		
Dry Density	1.78	1.93	Mg/m <sup>3</sup>	Test Duration (Days)	9
				Date Tested	09/08/2021

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.513
0 - 100	0.179	.	23	0.486
100 - 200	0.120	8.33	23	0.468
200 - 400	0.089	6.68	23	0.442
400 - 800	0.060	4.96	23	0.407
800 - 1600	0.042	3.25	23	0.360
1600 - 3200	0.022	3.03	23	0.311
3200 - 800	0.005	Swelling	23	0.326
800 - 400	0.022	Swelling	23	0.338
400 - 100	0.080	Swelling	23	0.370

For sample description please refer to the Laboratory Sample Description Sheet.

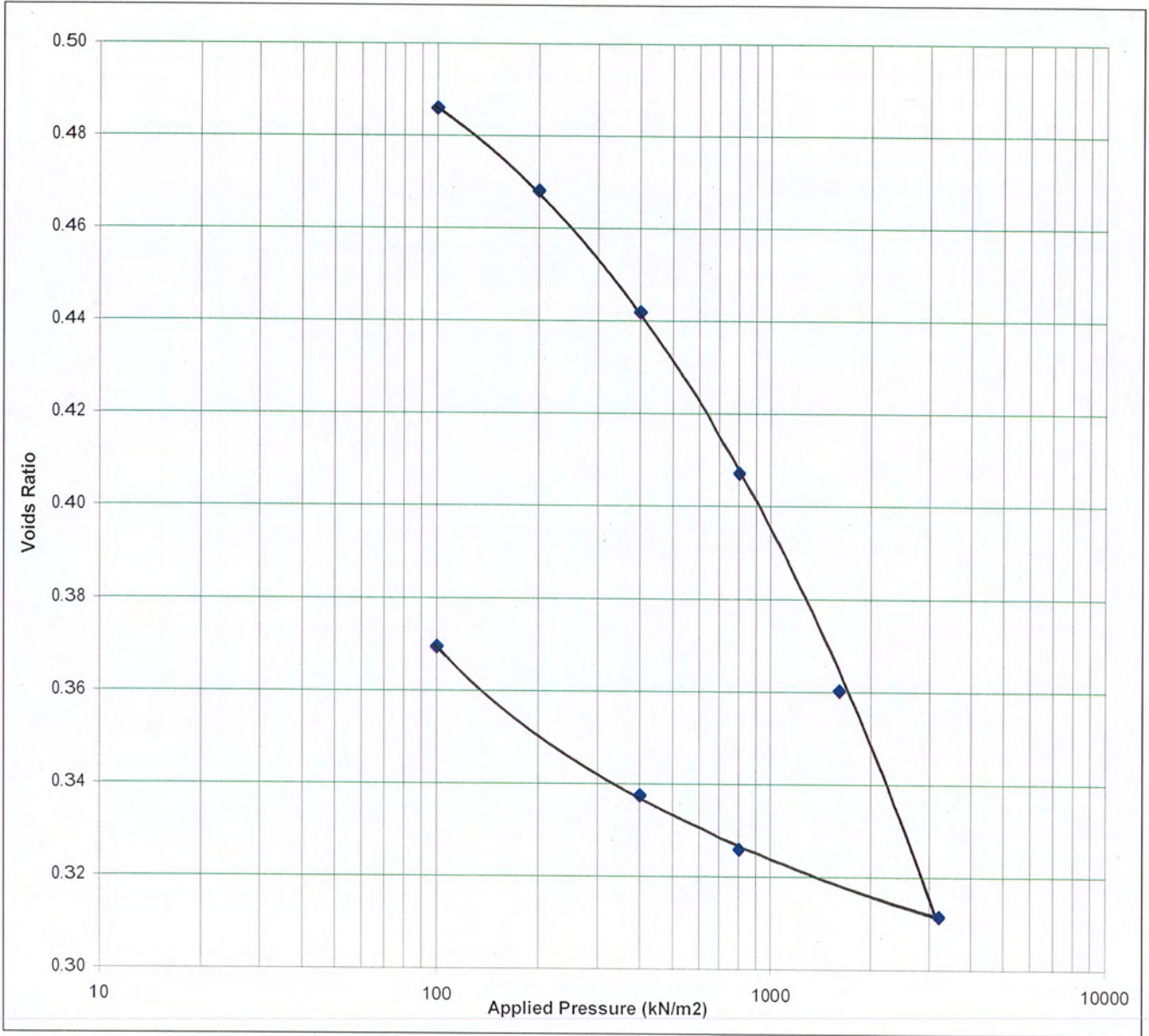
Contract Title:		Client:	
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	Signed:	Name:	Page 1 of 2
		<b>M. SELKIRK</b>	
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	MS\BH11	Sample	U55	Depth (m)	17.55m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	17.90m



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	Signed: <span style="background-color: black; color: black;">[REDACTED]</span>	Name: <b>M. SELKIRK</b>	Page 2 of 2	
	Date of Issue: 23/08/2021	Certificate No: 4339/G	AEG Contract No: 4339	



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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	MS\BH12	Sample	UT1	Depth (m)	16.20m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	16.20m
	INITIAL	FINAL			
Height	18.7	13.9	mm	Particle Density (Assumed)	2.70
Diameter	75.14	75.14	mm		
Moisture Content	35.6	19.5	%	Degree of Saturation (%)	99.8
Wet Density	1.86	2.18	Mg/m <sup>3</sup>		
Dry Density	1.38	1.82	Mg/m <sup>3</sup>	Test Duration (Days)	9
				Date Tested	06/08/2021

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.963
0 - 100	1.136	.	23	0.740
100 - 200	0.363	1.48	23	0.677
200 - 400	0.211	2.18	23	0.607
400 - 800	0.106	2.57	23	0.539
800 - 1600	0.053	4.02	23	0.474
1600 - 3200	0.027	4.02	23	0.410
3200 - 800	0.004	Swelling	23	0.424
800 - 400	0.013	Swelling	23	0.431
400 - 100	0.069	Swelling	23	0.461

For sample description please refer to the Laboratory Sample Description Sheet.

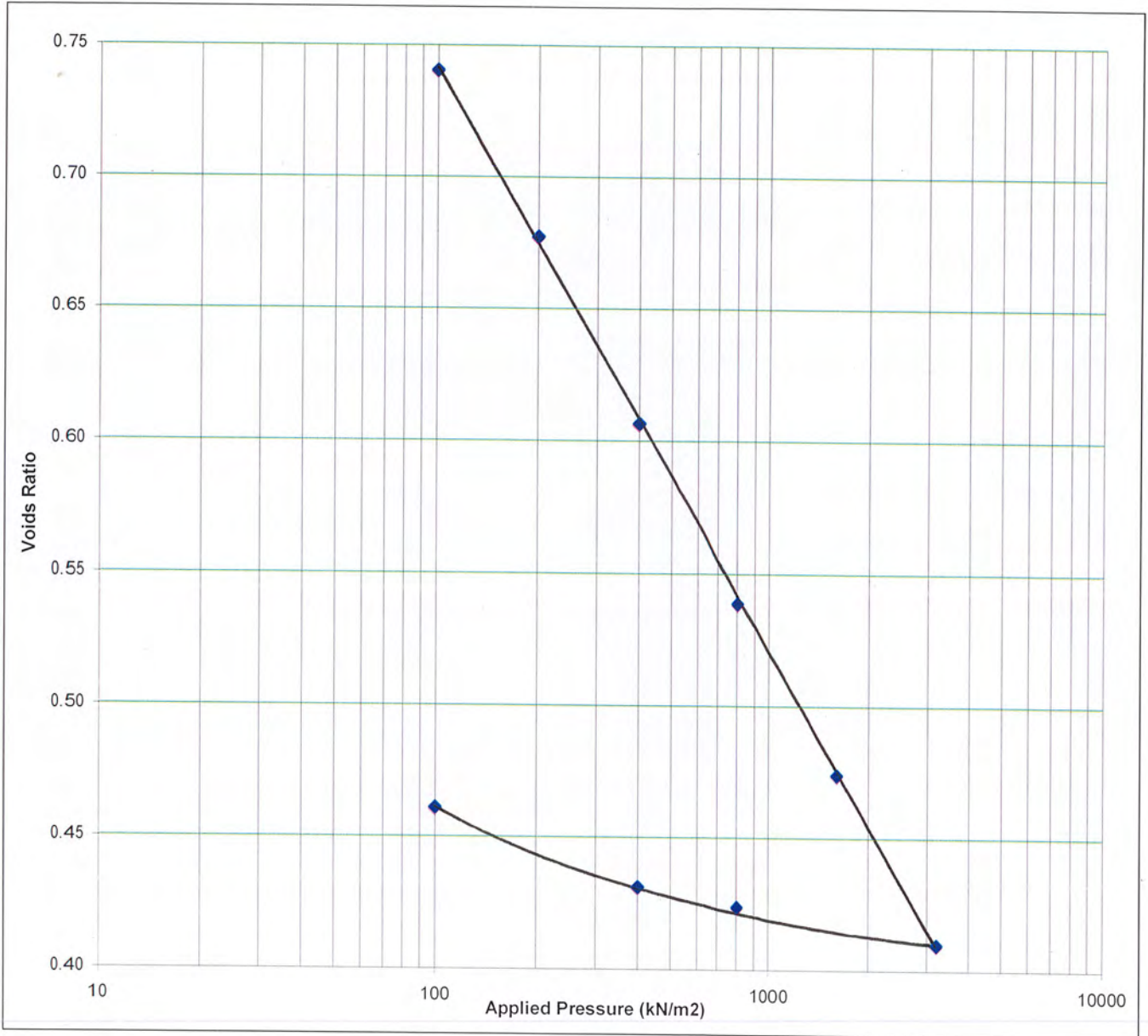
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	[Redacted Signature]	M. SELKIRK		
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH12</b>	Sample	<b>UT1</b>	Depth (m)	<b>16.20m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>16.20m</b>



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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES

BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	MS\BH13	Sample	UT1	Depth (m)	5.70m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	5.70m
	INITIAL	FINAL			
Height	18.7	15.2	mm	Particle Density (Assumed)	2.70
Diameter	75.01	75.01	mm		
Moisture Content	40.4	28.4	%	Degree of Saturation (%)	99.9
Wet Density	1.81	2.03	Mg/m <sup>3</sup>		
Dry Density	1.29	1.58	Mg/m <sup>3</sup>	Test Duration (Days)	10
				Date Tested	19/08/2021

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				1.092
0 - 25	1.941	.	23	0.990
25 - 50	0.901	1.81	23	0.946
50 - 100	0.545	1.61	24	0.893
100 - 200	0.382	1.11	24	0.820
200 - 400	0.220	1.39	24	0.740
400 - 800	0.127	1.48	23	0.652
800 - 400	0.010	Swelling	23	0.658
400 - 200	0.026	Swelling	23	0.667
200 - 100	0.089	Swelling	23	0.681
100 - 50	0.239	Swelling	23	0.702

For sample description please refer to the Laboratory Sample Description Sheet.

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	<div style="background-color: black; width: 100px; height: 20px; margin: 0 auto;"></div>	M. SELKIRK	
	Date of Issue:	Certificate No:	AEG Contract No:
	06/08/2021	4339/M	4339
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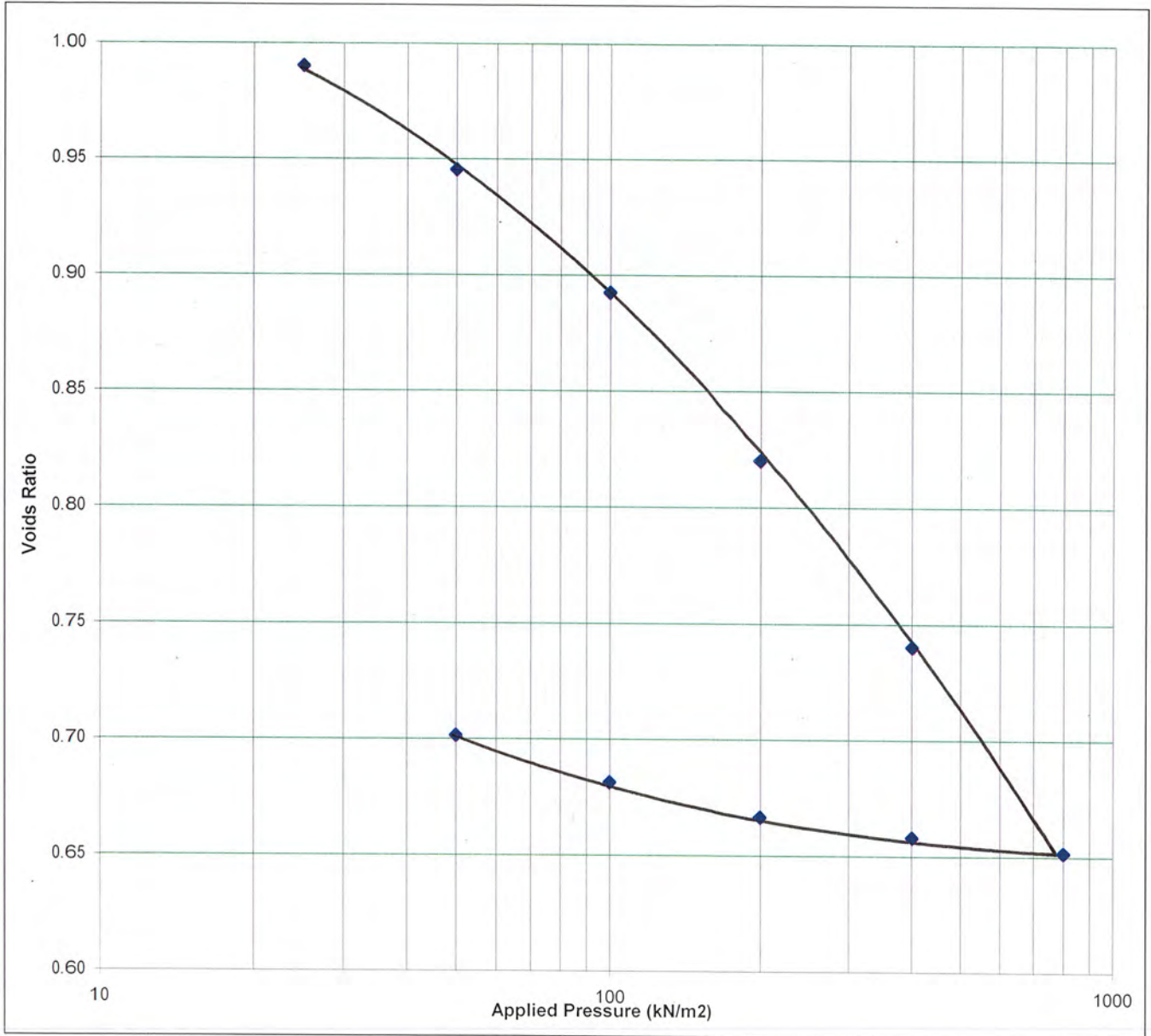
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES

BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	MS\BH13	Sample	UT1	Depth (m)	5.70m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	5.70m



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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

<b>Exploratory Hole No</b>	<b>MS\BH13</b>	<b>Sample</b>	<b>UT2</b>	<b>Depth (m)</b>	<b>11.70m</b>
<b>Specimen Type</b>	<b>Undisturbed</b>	<b>Orientation</b>	<b>Vertical</b>	<b>Specific Depth (m)</b>	<b>11.72m</b>
	<b>INITIAL</b>	<b>FINAL</b>			
Height	18.6	14.0	mm	Particle Density (Assumed)	2.70
Diameter	74.98	74.98	mm	Degree of Saturation (%)	97.5
Moisture Content	37.4	24.9	%	Test Duration (Days)	9
Wet Density	1.82	2.12	Mg/m <sup>3</sup>	Date Tested	02/09/2021
Dry Density	1.33	1.70	Mg/m <sup>3</sup>		

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				1.036
0 - 100	0.520	.	23	0.930
100 - 200	0.345	2.04	23	0.863
200 - 400	0.277	1.13	23	0.760
400 - 800	0.166	1.11	24	0.644
800 - 1600	0.085	1.21	24	0.531
1600 - 3200	0.040	1.32	25	0.433
3200 - 800	0.013	Swelling	25	0.478
800 - 200	0.029	Swelling	23	0.504
200 - 100	0.163	Swelling	23	0.529

For sample description please refer to the Laboratory Sample Description Sheet.

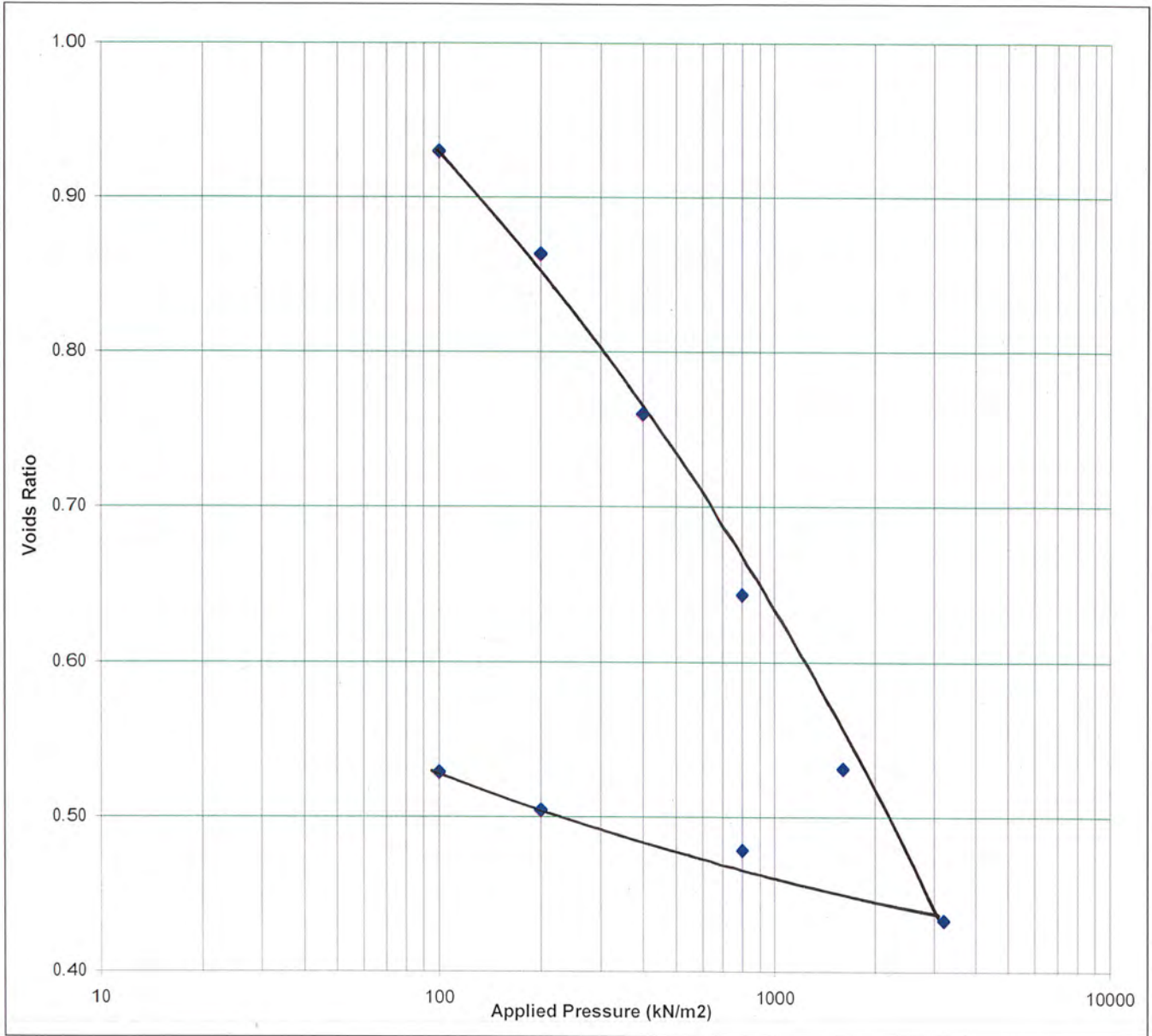
Contract Title:		Client:	
<b>Preliminary Onshore Ground Investigation For NZT</b>		<b>AECOM</b>	
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	MS\BH13	Sample	UT2	Depth (m)	11.70m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	11.72m



Contract Title: <b>Preliminary Onshore Ground Investigation For NZT</b>	Client: <b>AECOM</b>
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

<b>Exploratory Hole No</b>	<b>MS\BH14</b>	<b>Sample</b>	<b>U51</b>	<b>Depth (m)</b>	<b>14.20m</b>
<b>Specimen Type</b>	<b>Undisturbed</b>	<b>Orientation</b>	<b>Vertical</b>	<b>Specific Depth (m)</b>	<b>14.20m</b>
	<b>INITIAL</b>	<b>FINAL</b>			
Height	18.2	16.5	mm	Particle Density (Assumed)	2.70
Diameter	75.36	75.36	mm		
Moisture Content	19.3	17.7	%	Degree of Saturation (%)	96.6
Wet Density	2.09	2.24	Mg/m <sup>3</sup>		
Dry Density	1.75	1.90	Mg/m <sup>3</sup>	Test Duration (Days)	9
				Date Tested	20/08/2021

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.539
0 - 100	0.314	.	23	0.491
100 - 200	0.108	2.85	24	0.475
200 - 400	0.078	0.25	24	0.452
400 - 800	0.057	0.30	24	0.419
800 - 1600	0.038	0.35	23	0.376
1600 - 3200	0.023	0.33	23	0.325
3200 - 800	0.005	Swelling	23	0.341
800 - 200	0.042	Swelling	23	0.374
200 - 100	0.130	Swelling	23	0.392

For sample description please refer to the Laboratory Sample Description Sheet.

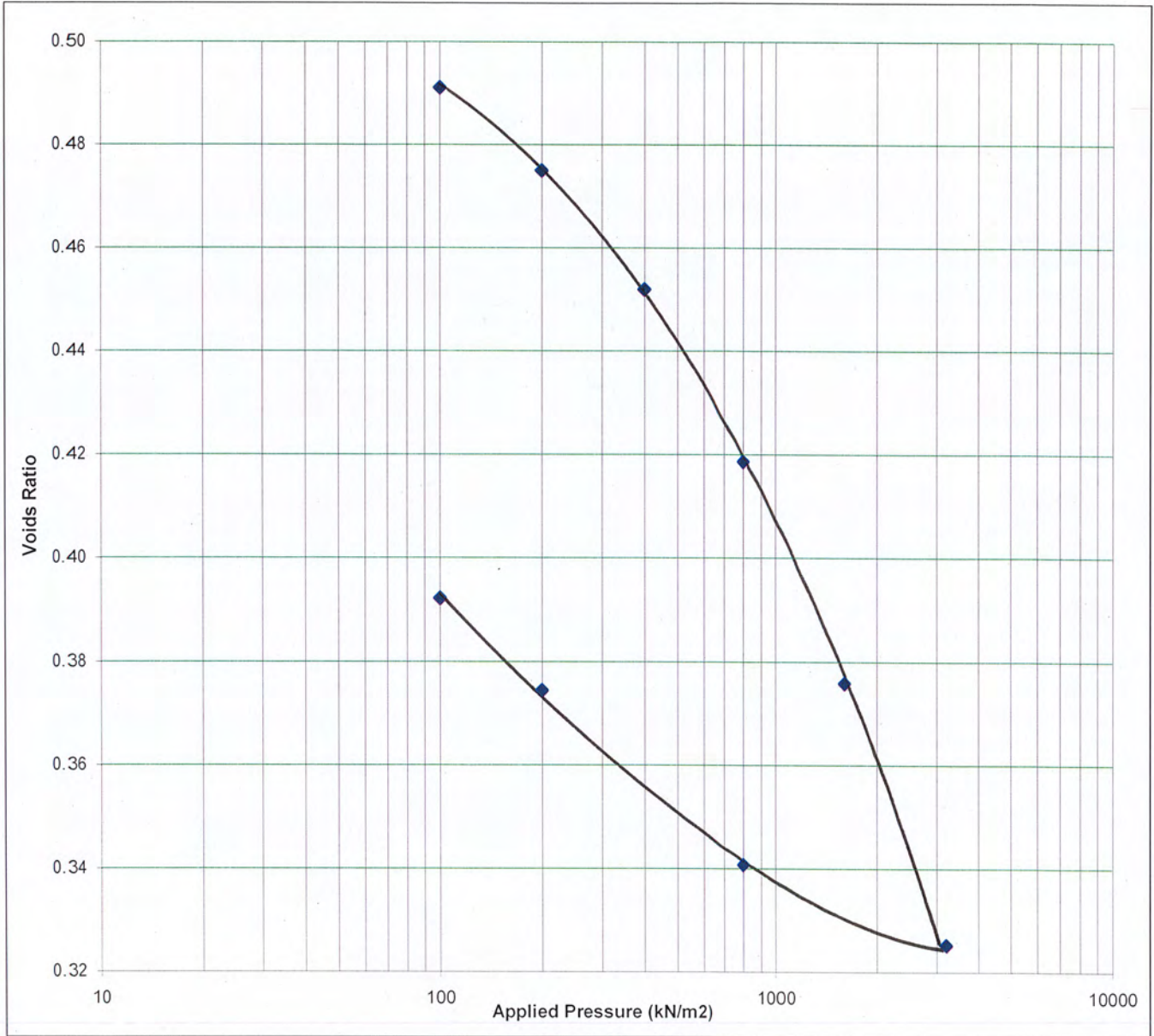
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<b>Preliminary Onshore Ground Investigation For NZT</b>		<b>AECOM</b>	
	Signed:	Name:	Page 1 of 2
	[Redacted Signature]	M. SELKIRK	
Date of Issue:	Certificate No:	AEG Contract No:	 1367
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH14</b>	Sample	<b>U51</b>	Depth (m)	<b>14.20m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>14.20m</b>



Contract Title:  
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Client:  
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Signed: [Redacted Signature]

Name:  
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	MS\BH15	Sample	UT1	Depth (m)	14.70m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	14.70m
	INITIAL	FINAL			
Height	19.2	17.2	mm	Particle Density (Assumed)	2.70
Diameter	75	75	mm		
Moisture Content	20.0	13.7	%	Degree of Saturation (%)	99.8
Wet Density	2.10	2.26	Mg/m <sup>3</sup>		
Dry Density	1.75	1.99	Mg/m <sup>3</sup>	Test Duration (Days)	9
				Date Tested	20/08/2021

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.541
0 - 100	0.359	.	23	0.486
100 - 200	0.149	4.33	24	0.463
200 - 400	0.091	3.65	24	0.437
400 - 800	0.048	3.51	24	0.409
800 - 1600	0.028	4.96	23	0.377
1600 - 3200	0.016	5.12	23	0.343
3200 - 800	0.002	Swelling	23	0.350
800 - 200	0.024	Swelling	23	0.369
200 - 100	0.077	Swelling	23	0.380

For sample description please refer to the Laboratory Sample Description Sheet.

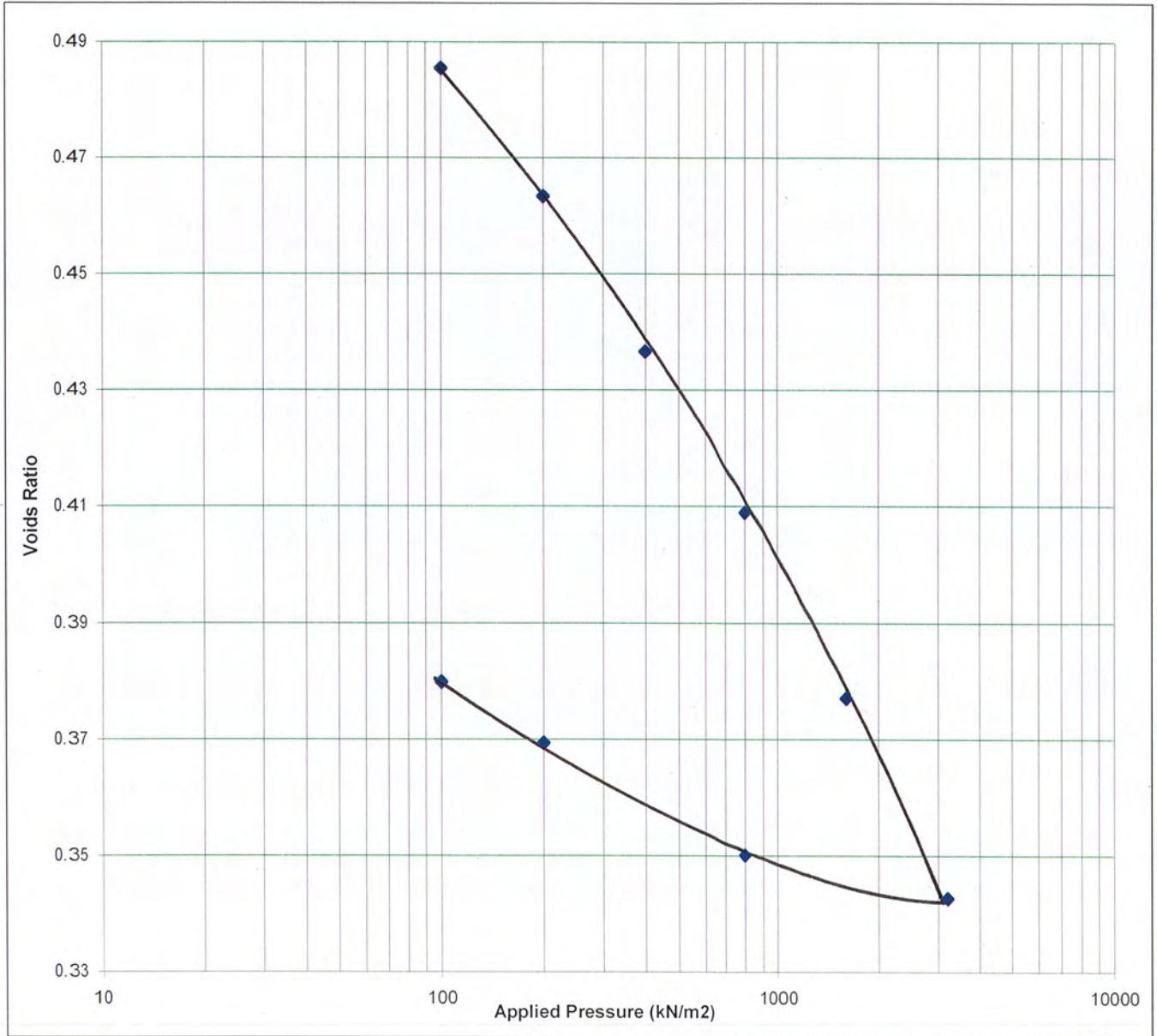
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<b>Preliminary Onshore Ground Investigation For NZT</b>			<b>AECOM</b>		
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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MSIBH15</b>	Sample	<b>UT1</b>	Depth (m)	<b>14.70m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>14.70m</b>



Contract Title:  
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Client:  
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Name:  
**M. SELKIRK**

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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	<b>MS\BH15</b>	Sample	<b>UT2</b>	Depth (m)	<b>17.70m</b>
Specimen Type	<b>Undisturbed</b>	Orientation	<b>Vertical</b>	Specific Depth (m)	<b>17.70m</b>
	INITIAL	FINAL			
Height	18.8	17.2	mm	Particle Density (Assumed)	2.70
Diameter	75.11	75.11	mm		
Moisture Content	32.0	31.5	%	Degree of Saturation (%)	97.7
Wet Density	1.89	1.98	Mg/m <sup>3</sup>		
Dry Density	1.43	1.51	Mg/m <sup>3</sup>	Test Duration (Days)	10
				Date Tested	20/08/2021

Square Root of Time Fitting Method				
Pressure Range kN/m <sup>2</sup>	Mv m <sup>2</sup> /MN	Cv m <sup>2</sup> /yr	Temp C	Voids Ratio
Initial				0.884
0 - 50	0.334	.	23	0.853
50 - 100	0.317	1.16	24	0.823
100 - 200	0.237	1.16	24	0.780
200 - 400	0.149	1.52	24	0.727
400 - 800	0.096	1.75	23	0.661
800 - 1600	0.060	1.68	23	0.580
1600 - 800	0.015	Swelling	23	0.599
800 - 400	0.045	Swelling	23	0.628
400 - 200	0.099	Swelling	23	0.660
200 - 50	0.284	Swelling	23	0.731

For sample description please refer to the Laboratory Sample Description Sheet.

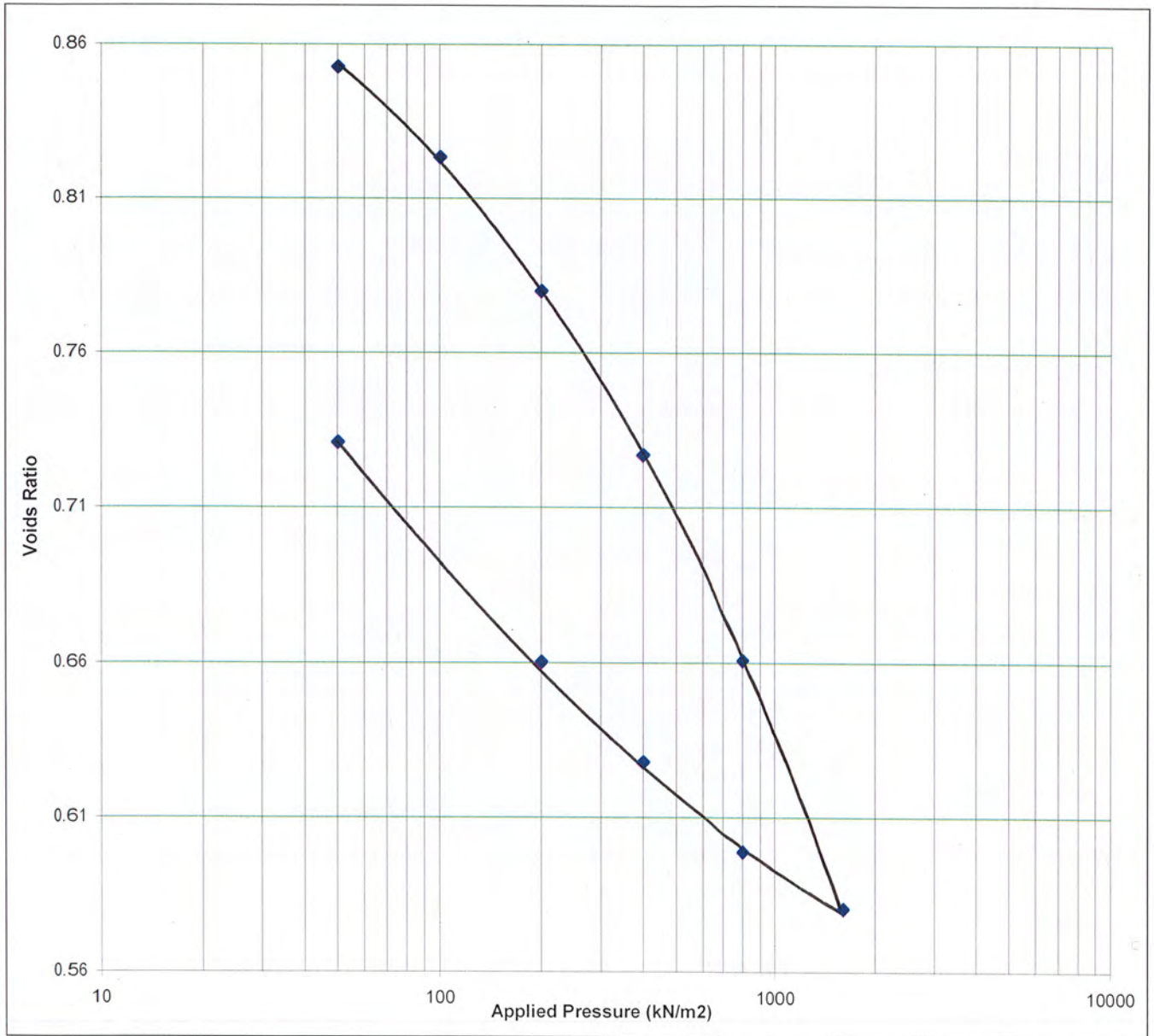
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		<b>M. SELKIRK</b>	
Date of Issue:	Certificate No:	AEG Contract No:	
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# ALLIED EXPLORATION & GEOTECHNICS LIMITED


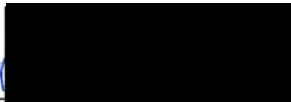

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## ONE DIMENSIONAL CONSOLIDATION PROPERTIES BS 1377 : PART 5 : 1990 : CLAUSE 3

Exploratory Hole No	MS\BH15	Sample	UT2	Depth (m)	17.70m
Specimen Type	Undisturbed	Orientation	Vertical	Specific Depth (m)	17.70m



Contract Title: <b>Preliminary Onshore Ground Investigation For NZT</b>	Client: <b>AECOM</b>
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	Signed: 	Name: <b>M. SELKIRK</b>	Page 2 of 2	
	Date of Issue: 07/08/2021	Certificate No: 4339/Q	AEG Contract No: 4339	