

SGS MATROCAST (PTY) LTD
- CIVIL ENGINEERING SERVICES -
Reg.No.: 2000/030983/07 - VAT. Reg.No.: 4130197405
a SANAS Accredited Testing Laboratory, No. T0245

BUILDING 2, 10 HYDRO STREET
STIKLAND INDUSTRIAL, BELLVILLE
Tel. : 021 9815558/9
Fax : 021 9416724
Email : gregory.bell@sgs.com

CLIENT : TRANSNET FREIGHT RAIL (RME)
ADDRESS : P.O.BOX 338
KASSELSVLEI
7533
ATTENTION : MR. B MANUAL

OUR REF.: 69164.2

YOUR REF.:

DATE : 19.06.2025

PROJECT : WOSELEY - SUBSTATION

SGS MATROCAST

a SANAS Accredited Testing Laboratory, No. T0245

Tests marked * "Not SANAS Accredited" in this Report are not included in the SANAS Schedule of Accreditation for the laboratory.

TEST REPORT / RESULTS

Sample/s: Sampled by : Client
Date Received / Sampled : 13.06.2025
Date Tested : 13.06.2025 - 19.06.2025
Tested at : SGS MATROCAST (PTY) LTD

Sampling method : Sampled by client and results apply to the sample as received

Section / Position tested identified by : CUSTOMER

Number of pages in this Report : 5

General : OEDOMETER TEST RESULTS.

Opinions and interpretations expressed herein are outside the Scope of SANAS Accreditation.
Results only have bearing on the samples tested.
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MATROLAB

CONSOLIDATION TESTS: STANDARD OEDOMETER

BS 1377
Part 5

Client : TRANSNET
Sample no : DO6895
Lab no : G25-0208

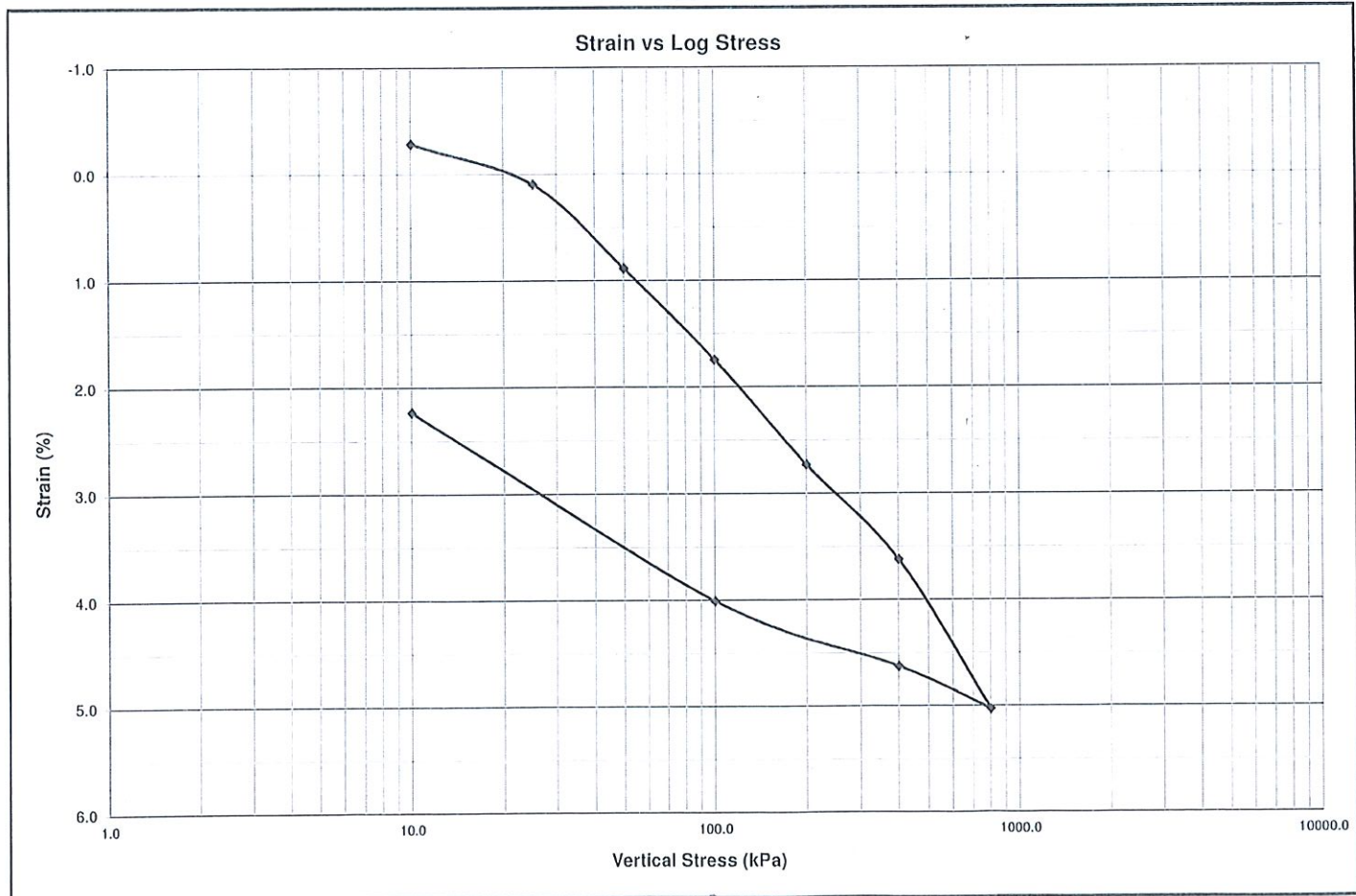
Project : WOLSLEY SUBSTATION
Depth (m) : 1.30-2.50

Job no : 57107
Date : 26/06/2025

Page 1 of 2

Sample Parameters	Unit	Value	Remarks	Test Remarks	
Moisture Content	Before Test	%	20.8	Complete test specimen	UNDISTURBED SAMPLE
	After Test	%	24.9	Complete test specimen	
Dry Density	kg/m ³	1649			
Void Ratio	-	0.648			
Degree of Saturation	%	87			
Initial Specimen Height	mm	25.0			
Relative Density (SG)	-	2.717	Determined		

Test Parameters												
Vertical Stress	kPa	10.0	25	50	100	200	400	800	400	100	10	
Time Elapsed	hr	24	24	24	24	24	24	24	3	3	3	
H ₁₀₀	mm	25.072	24.977	24.778	24.564	24.318	24.095	23.743	23.843	23.998	24.442	
Strain	%	-0.286	0.094	0.886	1.744	2.730	3.620	5.027	4.626	4.008	2.233	
Void Ratio	-	0.652	0.646	0.633	0.619	0.603	0.588	0.565	0.572	0.582	0.611	
Mv (1/Mpa)	-	-	0.2526	0.3173	0.173	0.1003	0.0458	0.0365	0.0106	0.0216	0.2054	



TECHNICAL SIGNATORY : STEPHAN HUSSELMAN

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CONSOLIDATION TESTS: STANDARD OEDOMETER

BS 1377 Part 5

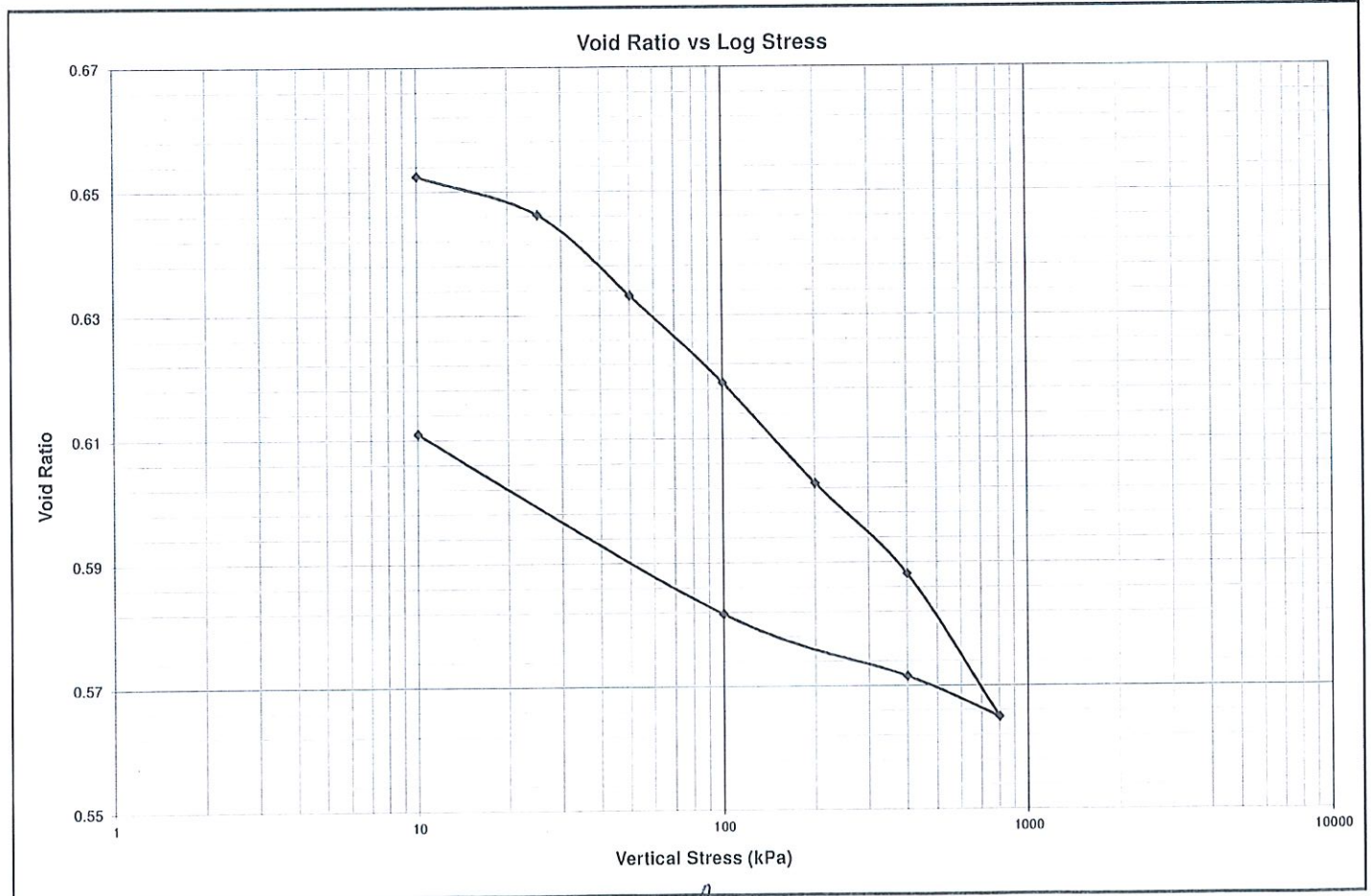
Client : TRANSNET
Sample no : DO6895
Lab no : G25-0208

Project : WOLSLEY SUBSTATION
Depth (m) : 1.30-2.50

Job no : 57107
Date : 26/06/2025

Sample Parameters	Unit	Value	Remarks	Test Remarks	
Moisture Content	Before Test	%	20.8	Complete test specimen	UNDISTURBED SAMPLE
	After Test	%	24.9	Complete test specimen	
Dry Density	kg/m ³	1649			
Void Ratio	-	0.648			
Degree of Saturation	%	87			
Initial Specimen Height	mm	25.0			
Relative Density (SG)	-	2.717	Determined		

Test Parameters												
Vertical Stress	kPa	10	25	50	100	200	400	800	400	100	10	
Time Elapsed	hr	24	24	24	24	24	24	24	3	3	3	
H ₁₀₀	mm	25.072	24.977	24.778	24.564	24.318	24.095	23.743	23.843	23.998	24.442	
Strain	%	-0.286	0.094	0.886	1.744	2.730	3.620	5.027	4.626	4.008	2.233	
Void Ratio	-	0.652	0.646	0.633	0.619	0.603	0.588	0.565	0.572	0.582	0.611	
Mv (1/Mpa)	-	-	0.2526	0.3173	0.173	0.1003	0.0458	0.0365	0.0106	0.0216	0.2054	



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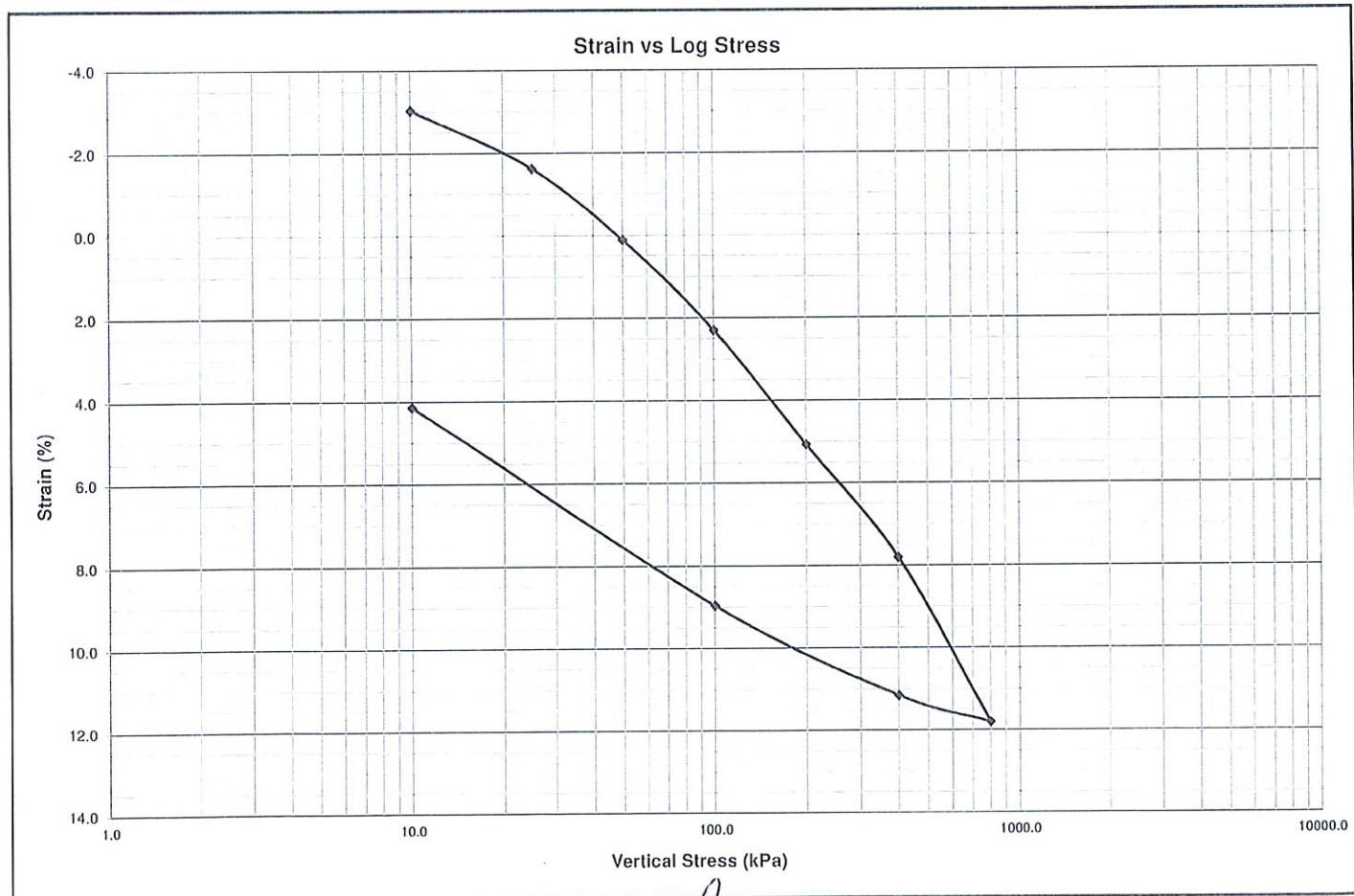
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Client : TRANSNET Project : WOLSLEY SUBSTATION Job no : 57107
 Sample no : DO6896 Date : 26/06/2025
 Lab no : G25-0209 Depth (m) : 1.0-2.0

Sample Parameters	Unit	Value	Remarks	Test Remarks	
Moisture Content	Before Test	%	19.7	Complete test specimen	UNDISTURBED SAMPLE
	After Test	%	26.5	Complete test specimen	
Dry Density	kg/m ³	1681			
Void Ratio	-	0.649			
Degree of Saturation	%	84			
Initial Specimen Height	mm	25.4			
Relative Density (SG)	-	2.772	Determined		

Test Parameters												
Vertical Stress	kPa	10.0	25	50	100	200	400	800	400	100	10	
Time Elapsed	hr	24	24	24	24	24	24	24	24	3	3	
H ₁₀₀	mm	26.170	25.813	25.372	24.815	24.112	23.418	22.401	22.567	23.123	24.348	
Strain	%	-3.032	-1.625	0.111	2.302	5.069	7.803	11.807	11.155	8.965	4.141	
Void Ratio	-	0.699	0.676	0.648	0.611	0.566	0.521	0.455	0.465	0.502	0.581	
Mv (1/Mpa)	-	-	0.9102	0.6832	0.4388	0.2832	0.144	0.1086	0.0185	0.0822	0.5888	



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CONSOLIDATION TESTS: STANDARD OEDOMETER

BS 1377
Part 5

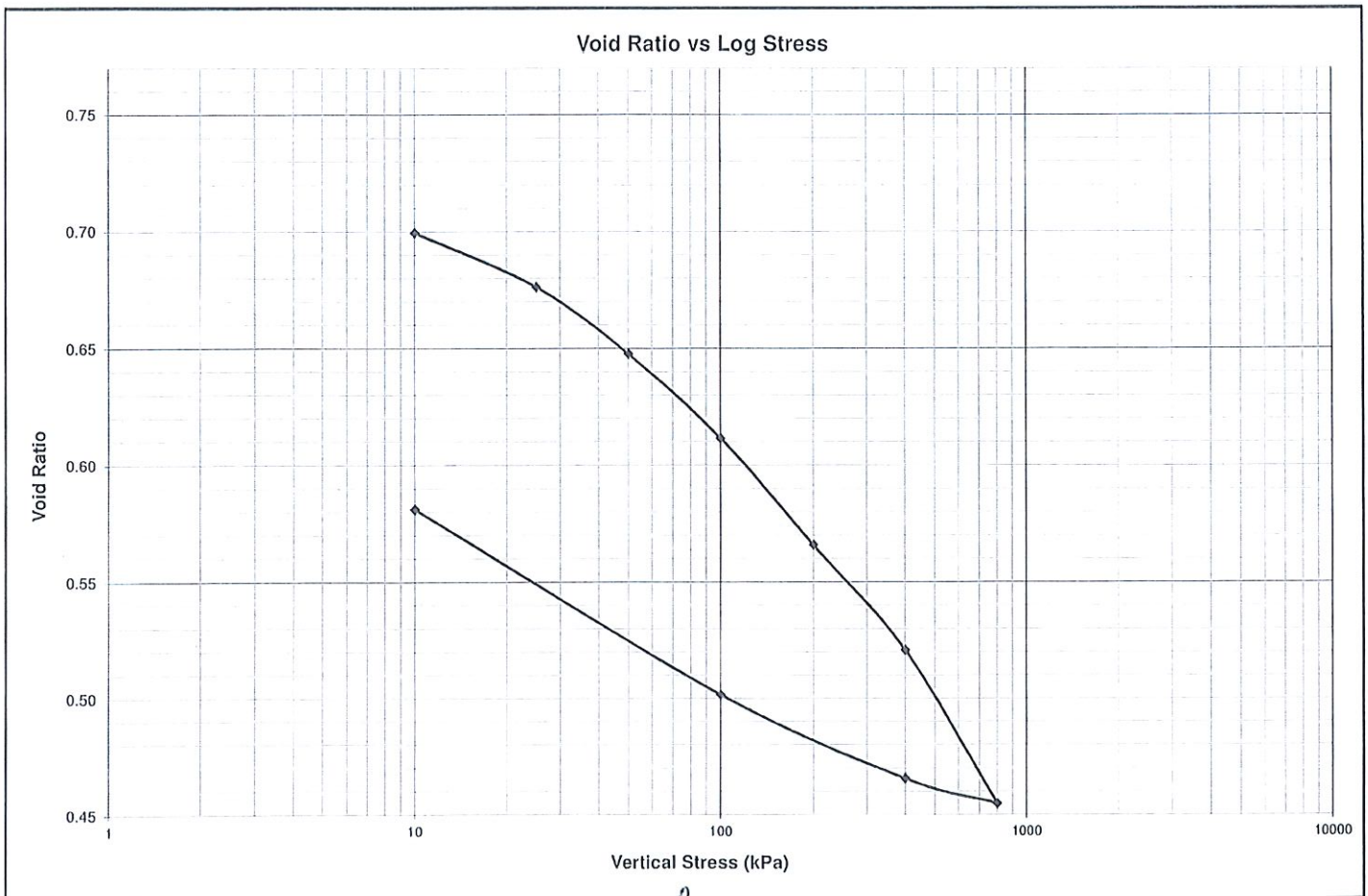
Client : TRANSNET
Sample no : DO6896
Lab no : G25-0209

Project : WOLSLEY SUBSTATION
Depth (m) : 1.0-2.0

Job no : 57107
Date : 26/06/2025

Sample Parameters	Unit	Value	Remarks	Test Remarks	
Moisture Content	Before Test	%	19.7	Complete test specimen	UNDISTURBED SAMPLE
	After Test	%	26.5	Complete test specimen	
Dry Density	kg/m ³	1681			
Void Ratio	-	0.649			
Degree of Saturation	%	84			
Initial Specimen Height	mm	25.4			
Relative Density (SG)	-	2.772	Determined		

Vertical Stress	kPa	Test Parameters												
		10	25	50	100	200	400	800	400	100	10			
Time Elapsed	hr	24	24	24	24	24	24	24	24	24	3	3		
H ₁₀₀	mm	26.170	25.813	25.372	24.815	24.112	23.418	22.401	22.567	23.123	24.348			
Strain	%	-3.032	-1.625	0.111	2.302	5.069	7.803	11.807	11.155	8.965	4.141			
Void Ratio	-	0.699	0.676	0.648	0.611	0.566	0.521	0.455	0.465	0.502	0.581			
Mv (1/Mpa)	-	-	0.9102	0.6832	0.4388	0.2832	0.144	0.1086	0.0185	0.0822	0.5888			



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