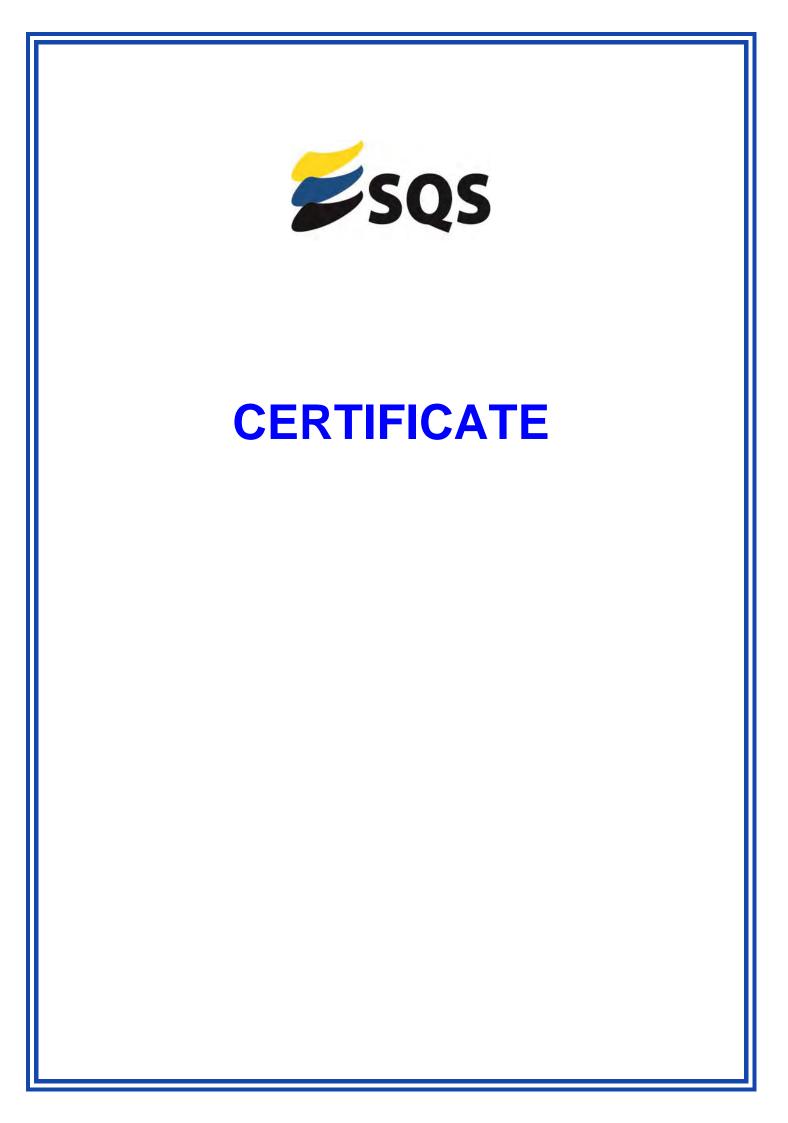




LEVEL 1 EARTHWORKS

RESIDENTIAL SUBDIVISION 174 ADARE ROAD ADARE QLD 4343





CHINCHILLA Ray Hicks PHONE: 0428 187 579

21st March 2023

Newlands Civil Construction Pty Ltd, 6 Ann Street, TOOWOOMBA QLD 4350

Dear Sir

RE: LEVEL 1 EARTHWORKS RESIDENTIAL SUBDIVISION AT 174 ADARE ROAD, ADARE, QLD, 4343.

Supervision of earthwork operations was carried out at the above location by SQS. The Level 1 Supervision and associated field density testing on the earthworks commenced on 20/12/2022 and was completed on 03/03/2023.

The supervision and testing of the earthworks were undertaken in general accordance with the Level 1 requirements of AS3798 – Guidelines on Earthworks for Commercial and Residential Developments and the Earthworks. Structural fill used in the project was placed compacted and tested in accordance with Section 6 and 7 of AS3798 (2007) – Guidelines on Earthworks for Commercial and Residential Development.

The site supervision and testing were performed by experienced geotechnicians from the SQS Toowoomba laboratory as per Section 8.2 AS3798 (2007). Supervision of the works included, test rolling of subgrade, placing of imported structural fill, compaction and adding or removal of moisture as required. Any areas that were deemed unsatisfactory were reworked and retested under the supervision of SQS. Testing was performed to the relevant Australian Standards and all test reports carry NATA endorsement. All compaction tests were located randomly throughout the fill profile are considered to be representative of the fill materials that was placed in the above-mentioned period. When interpreting the requirements of AS2870 – Residential Slabs and Footings 2011, we are of the view that all of the material that has been placed across the site during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 98% +/-2% standard compaction for the fill.

All NATA endorsed test certificates associated with the filling are held in the Toowoomba Laboratory Office of SQS. These test certificates are in electronic format and held on computer data base. Hard copies of the test reports are also filed in the Toowoomba Laboratory Office.

This Certificate applies to all fill material placed in the construction of the project within the boundaries of the project sites as listed and shown on the drawing included in this report –Bulk Earthworks Layout Plan Drawing No C1200 Rev O

CHINCHILLA HEAD OFFICE (07) 4668 9716 – <u>chinchilla@sqs.net.au</u> BRISBANE (07) 3284 8766 – <u>brisbane@sqs.net.au</u> TOOWOOMBA (07) 4633 4875 - <u>toowoomba@sqs.net.au</u>

ROMA (07) 4622 3888 – <u>roma@sgs.net.au</u> WANDOAN 0488 556 262 – <u>wandoan@sgs.net.au</u> NARRABRI (02) 6792 6511 – <u>narrabri@sgs.net.au</u> RICHLANDS 0442 934 193 – <u>richlands@sgs.net.au</u>



Soil Testing & Investigation



Should you require any further information or clarification of this matter, please contact Ray Hicks by telephoning 0428187579 during business hours.

Yours faithfully,

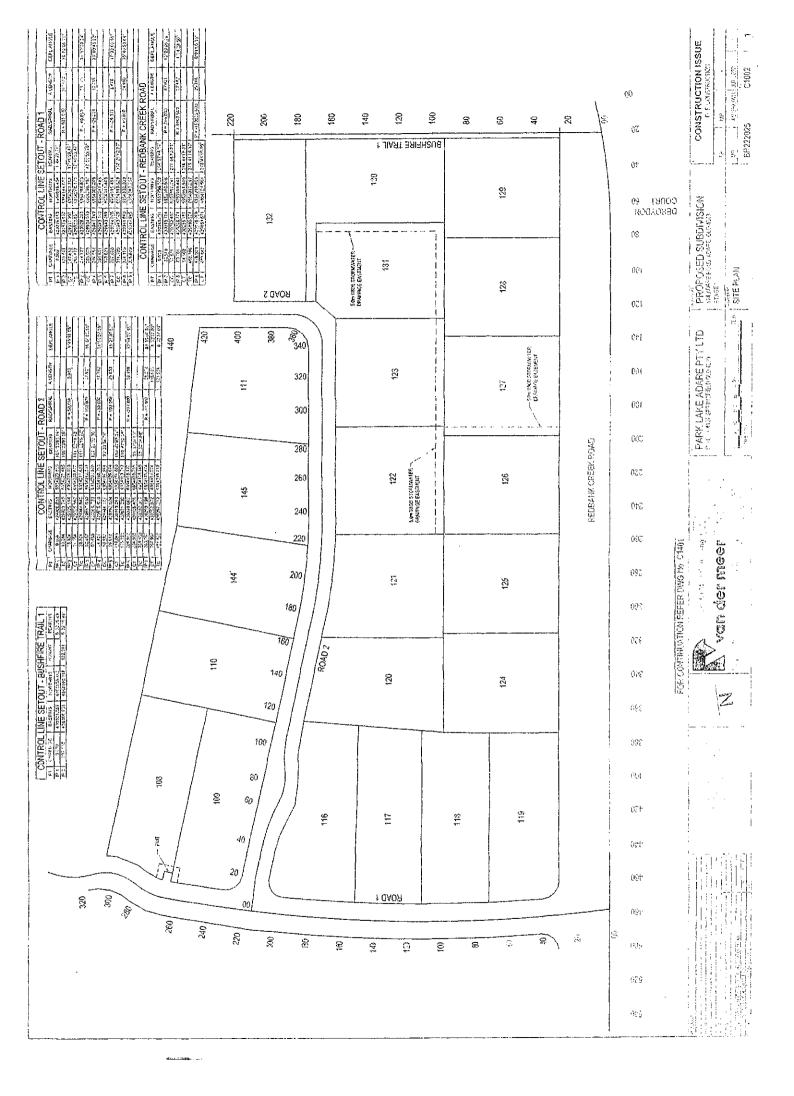
Ray Hicks RPEQ 1149

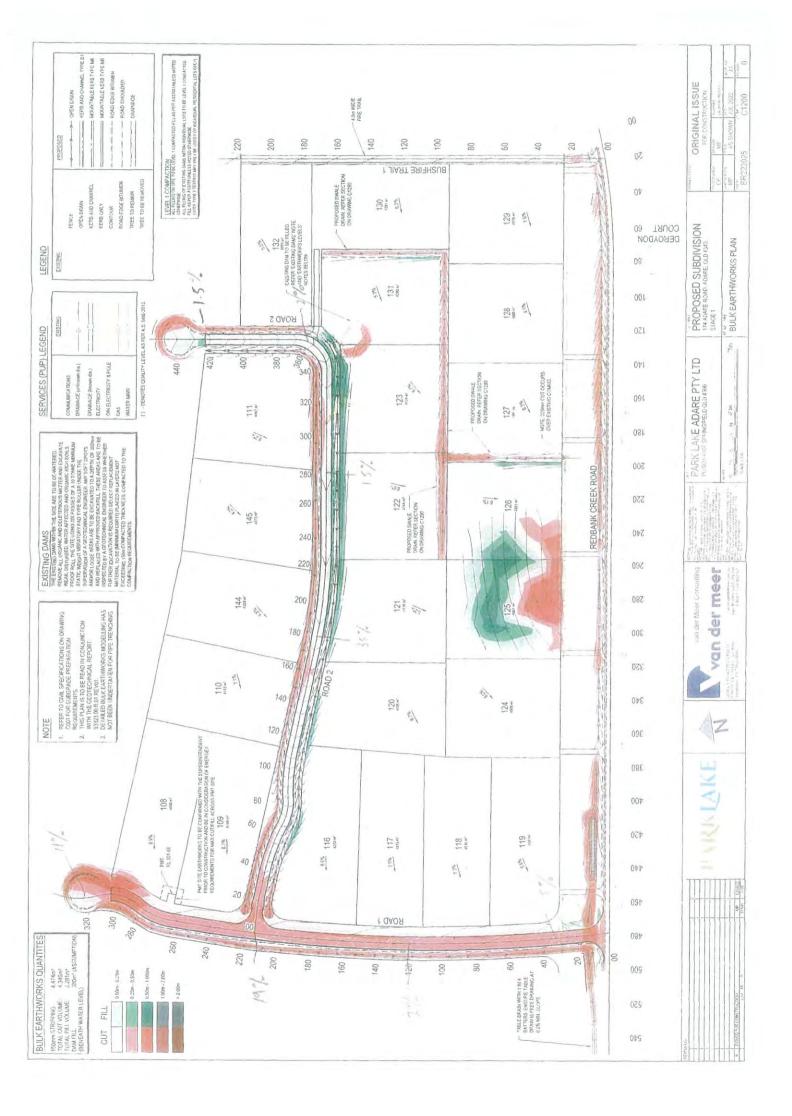




DRAWINGS

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TEST REPORTS AND LOCATIONS

Report Number: Issue Number: Date Issued:	T-22-681-2 1 22/12/2022		SOIL QUALITY SERVICES AMB Geotech 5QS Pty Ltd ABN 36 631 788 620
Client:	Newlands Civil Construction Pty Ltd		SQS
	6 Ann Street (PO Box 3407), Toowoomba QLD 4350		Toowoomba Laboratory
Project Number:	T-22-681		15 Rocla Court Toowoomba QLD 4350
Project Name:	63 Redbank Creek Road, Adare - Sub-division		Phone (07) 4633 4875
Nork Request:	9647		Email Neil.hooper@sqs.net.al
Date Sampled:	20/12/2022	~	Accredited for compliance with ISO/IEC 17025 - Testing
Dates Tested:	20/12/2022 - 21/12/2022		N/ . Her
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted	NATA	Neilly
Preparation Method:	AS 1289.1.1 - Sampling and preparation of soils	Y	Approved Signatory: Neil Hooper
Specification:	COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)	ACCREDITATION	Senior Technician NATA Accredited Laboratory Number: 2911
Location:	Adare Subdivision - Dam #1		
Material:	Silty Gravelly Clay		
Material Source:	Existing / Cut to Fill		

Sample Number	T-9647A	T-9647B	T-9647C
Date Tested	20/12/2022	20/12/2022	20/12/2022
Time Tested	13:20	13:30	13:40
Test Request #/Location	Dam #1	Dam #1	Dam #1
Easting	430072.510	430081.780	430095.820
Northing	6954054.990	6954048.610	6954047.440
Elevation (m)	107.350	106.870	106.840
Layer / Reduced Level	General Fill	General Fill	General Fill
Thickness of Layer (mm)	300	300	300
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay
Test Depth (mm)	250	250	250
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	3	3	3
Oversize (dry basis) %	3	3	3
Curing Hours	2.6	5.1	5.5
Method used to Determine Plasticity	Visual	Visual	Visual
Field Wet Density t/m ³	2.05	2.09	2.13
Field Moisture Content %	15.1	15.1	15.5
Field Dry Density t/m ³	1.78	1.81	1.84
Maximum Dry Density t/m ³	1.81	1.81	1.82
Adjusted Maximum Dry Density t/m ³	1.82	1.82	1.84
Optimum Moisture Content %	15.0	15.5	16.0
Adjusted Optimum Moisture Content %	14.5	15.0	15.5
Moisture Variation %	-1.0	0.0	0.0
Moisture Ratio %	105.0	101.5	101.5
Density Ratio %	98.0	99.5	100.0
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC Negative values = test is wet of OMC

Dement Number	T-22-681-4		SOIL QUALITY SERVICES
Report Number:	1-22-001-4		
ssue Number:	1		AMB Geotech SQS Pty Ltd ABN 36 631 788 620
Date Issued:	06/01/2023		
Client:	Newlands Civil Construction Pty Ltd		SQS
	6 Ann Street (PO Box 3407), Toowoomba QLD 4350		Toowoomba Laboratory
Project Number:	T-22-681		15 Rocla Court Toowoomba QLD 4350
Project Name:	63 Redbank Creek Road, Adare - Sub-division		Phone: (07) 4633 4875
Work Request:	9656		Email: Neil.hooper@sqs.net.au
Date Sampled:	21/12/2022	~	Accredited for compliance with ISO/IEC 17025 - Testing
Dates Tested:	21/12/2022 - 05/01/2023		N. HA
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted	NATA	1 Velley
Preparation Method:	AS 1289.1.1 - Sampling and preparation of soils	WORLD RECOONISED	Approved Signatory Neil Hooper
Specification:	COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)	ACCREDITATION	Senior Technician NATA Accredited Laboratory Number: 2911
Location:	Redbank Creek Rd Adare - Dam 2		
Material:	Sandy Clay		
Material Source:	Existing / Cut to Fill		

Compaction Control AS 1289 5.1.1 & 5.4.1 & Sample Number	T-9656A	T-9656B	T-9656C
Date Tested	21/12/2022	21/12/2022	21/12/2022
Time Tested	10:15	12:10	12:30
Test Request #/Location	Dam 2	Dam 2	Dam 2
Easting	430252.840	430249.120	403245.590
Northing	6954120.500	6954122.030	6954115.640
Elevation (m)	113.870	114.180	113.860
_ayer / Reduced Level	General Fill	General Fill	General Fill
Thickness of Layer (mm)	300	300	300
Soil Description	Sandy Clay	Sandy Clay	Sandy Clay
Test Depth (mm)	250	250	250
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**
Oversize (dry basis) %	**	**	**
Curing Hours	4.4	3.3	2.9
Method used to Determine Plasticity	Visual	Visual	Visual
Field Wet Density t/m ³	2.16	2.12	2.14
Field Moisture Content %	11.4	12.5	12.2
Field Dry Density t/m ³	1.94	1.88	1.91
Maximum Dry Density t/m ³	1.95	1.92	1.90
Adjusted Maximum Dry Density t/m ³	**	**	**
Optimum Moisture Content %	11.5	11.0	14.0
Adjusted Optimum Moisture Content %	**	**	**
Moisture Variation %	0.0	-1.5	1.5
Moisture Ratio %	101.5	115.0	88.5
Density Ratio %	99.5	98.0	100.0
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC Negative values = test is wet of OMC

Report		
-22-681-5		SOIL QUALITY SERVICES
		AM8 Geotech SQS Pty Ltd
6/01/2023		ABN 36 631 788 620
lewlands Civil Construction Pty Ltd		SQS
		Toowoomba Laboratory
-22-681		15 Rocla Court Toowoomba QLD 4350
3 Redbank Creek Road, Adare - Sub-division		Phone: (07) 4633 4875
657		Email Neil.hooper@sqs.net.au
1/12/2022	~	Accredited for compliance with ISO/IEC 17025 - Testing
1/12/2022 - 05/01/2023	~	N/
S 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or avement - compacted	NATA	Nulthy
S 1289.1.1 - Sampling and preparation of soils	V	Approved Signatory Neil Hooper
OMPACTION STD: 98% of Standard Compaction (as dvised by client)	ACCREDITATION	Senior Technician NATA Accredited Laboratory Number: 2911
edbank Adare - Road 2 Subgrade		
andy Clay		
Insite Existing / Insitu		
6 le / 3 6 1 1 Sa S (d e a	5/01/2023 ewlands Civil Construction Pty Ltd Ann Street (PO Box 3407), Toowoomba QLD 4350 22-681 9 Redbank Creek Road, Adare - Sub-division 557 /12/2022 /12/2022 - 05/01/2023 5 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or ivement - compacted 5 1289.1.1 - Sampling and preparation of soils DMPACTION STD: 98% of Standard Compaction (as lvised by client) edbank Adare - Road 2 Subgrade andy Clay	5/01/2023 ewlands Civil Construction Pty Ltd Ann Street (PO Box 3407), Toowoomba QLD 4350 22-681 9 Redbank Creek Road, Adare - Sub-division 557 //12/2022 //12/2022 - 05/01/2023 5 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or ivement - compacted S 1289.1.1 - Sampling and preparation of soils DMPACTION STD: 98% of Standard Compaction (as Vised by client) edbank Adare - Road 2 Subgrade andy Clay

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

Sample Number	T-9657A	T-9657B	T-9657C
Date Tested	21/12/2022	21/12/2022	21/12/2022
Time Tested	12:35	12:45	12:55
Test Request #/Location	Road 2	Road 2	Road 2
Chainage (m)	CH 300	CH 180	CH 50
Location Offset (m)	1.5 LHS from CL	2.0 RHS from CL	3.0 LHS from CL
Layer / Reduced Level	Subgrade	Subgrade	Subgrade
Thickness of Layer (mm)	150	150	150
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Sandy Clay
Test Depth (mm)	150	150	150
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**
Oversize (dry basis) %	**	**	**
Curing Hours	2.6	2.3	2.1
Method used to Determine Plasticity	Visual	Visual	Visual
Field Wet Density t/m ³	2.10	2.09	2.12
Field Moisture Content %	8.5	9.3	8.6
Field Dry Density t/m ³	1.94	1.91	1.95
Maximum Dry Density t/m ³	1.88	1.90	1.91
Adjusted Maximum Dry Density Vm ³	**	**	**
Optimum Moisture Content %	12.5	12.5	12.5
Adjusted Optimum Moisture Content %	**	**	**
Moisture Variation %	4.0	3.0	4.0
Moisture Ratio %	68.5	75.0	69.5
Density Ratio %	103.0	100.5	102.0
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Material Tes	st Report		
Report Number: Issue Number: Date Issued: Client:	T-22-681-6 1 08/01/2023 Newlands Civil Construction Pty Ltd 6 Ann Street (PO Box 3407), Toowoomba QLD 4350		SOIL QUALITY SERVICES AMB Geotech SQS Pty Ltd ABN 36 631 788 620 SQS Toowoomba Laboratory
Project Number: Project Name: Work Request:	T-22-681 63 Redbank Creek Road, Adare - Sub-division 9661		15 Rocla Court Toowoomba QLD 4350 Phone: (07) 4633 4875 Email: Neil.hooper@sqs.net.au
Date Sampled: Dates Tested: Sampling Method:	22/12/2022 22/12/2022 - 06/01/2023 AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or	NATA	Accredited for compliance with ISO/IEC 17025 - Testing
Preparation Method: Specification:	pavement - compacted AS 1289.1 1 - Sampling and preparation of soils COMPACTION STD: 98% of Standard Compaction with +/-		Approved Signatory: Neil Hooper Senior Technician
Site Selection:	2% OMC (as advised by client) Selected by Client 63 Redbank Creek Road, Adare - Sub-division - Dam 2		NATA Accredited Laboratory Number: 2911
Material:	General Fill Sandy Clay		
Material Source:	Onsite / Cut to Fill		

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

Compaction Control AS 1208 3.1.1 & 3.4.1 &	0.0.10(2,1,1		
Sample Number	T-9661A	T-9661B	T-9661C
Date Tested	22/12/2022	22/12/2022	22/12/2022
Time Tested	10:20	10:30	10:40
Test Request #/Location	Dam 2	Dam 2	Dam 2
Easting	430251.000	430246.650	430243.470
Northing	6954119.290	6954124.600	6954115.420
Elevation (m)	114.480	114.770	114.260
Layer / Reduced Level	General Fill	General Fill	General Fill
Thickness of Layer (mm)	300	300	300
Soil Description	Sandy Clay	Sandy Clay	Sandy Clay
Test Depth (mm)	250	250	250
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**
Oversize (dry basis) %	**	**	**
Curing Hours	3.0	0.3	3.6
Method used to Determine Plasticity	Visual	Visual	Visual
Field Wet Density t/m ³	2.15	2.15	2.14
Field Moisture Content %	13.5	13.5	13.8
Field Dry Density t/m ³	1.89	1.89	1.88
Maximum Dry Density t/m ³	1.89	1.88	1.88
Adjusted Maximum Dry Density t/m ³	**	**	**
Optimum Moisture Content %	15.0	15.0	15.5
Adjusted Optimum Moisture Content %	**	**	**
Moisture Variation %	1.5	1.5	1.5
Moisture Ratio %	89.0	90.0	90.5
Density Ratio %	100.5	100.5	100.0
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

Material Tes	t Report		202
Report Number: Issue Number: Date Issued: Client: Project Number:	T-22-681-7 1 12/01/2023 Newlands Civil Construction Pty Ltd 6 Ann Street (PO Box 3407), Toowoomba QLD 4350 T-22-681		SolL QUALITY SERVICES AMB Geotech SQS Pty Ltd ABN 36 631 788 620 SQS Toowoomba Laboratory 15 Rocla Court Toowoomba QLD 4350 Phone (02) 4632 4925
Project Name: Work Request:	63 Redbank Creek Road, Adare - Sub-division 9693		Phone (07) 4633 4875 Email Toowoomba@sqs net au
Date Sampled: Dates Tested: Sampling Method: Preparation Method: Specification: Site Selection: Location: Material: Material Source:	10/01/2023 11/01/2023 - 11/01/2023 AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted AS 1289.1.1 - Sampling and preparation of soils COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client) Selected by Client Adare Subdivision - Dam 1 General Fill Sandy Gravelly Clay Existing / Cut to Fill	WORLD RECORDED ACCREDITATION	Accredited for compliance with ISO/IEC 17025 - Testing Approved Signatory: Kevin Kivinen Laboratory Manager NATA Accredited Laboratory Number 2911

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

Comple Number		7 00000	7.00000
Sample Number	T-9693A	T-9693B	T-9693C
Date Tested	10/01/2023	10/01/2023	10/01/2023
Time Tested	12:30	13:00	13:20
Test Request #/Location	Dam 1	Dam 1	Dam 1
Easting	430066.920	430085.880	430074.420
Northing	6954044.110	6954049.480	6954060.790
Elevation (m)	107.088	107.302	107.732
Layer / Reduced Level	General Fill	General Fill	General Fill
Thickness of Layer (mm)	200	200	200
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Test Depth (mm)	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**
Oversize (dry basis) %	**	**	**
Curing Hours	2.3	2.0	2.7
Method used to Determine Plasticity	Visual	Visual	Visual
Field Wet Density t/m ³	2.07	2.13	2.07
Field Moisture Content %	10.9	10.7	10.3
Field Dry Density t/m ³	1.87	1.92	1.88
Maximum Dry Density t/m ³	1.88	1.92	1.88
Adjusted Maximum Dry Density t/m ³	**	4.#	**
Optimum Moisture Content %	12.5	12.5	12.0
Adjusted Optimum Moisture Content %	**	**	**
Moisture Variation %	2.0	1.5	1.5
Moisture Ratio %	86.0	86.0	87.0
Density Ratio %	99.0	100.5	100.0
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC

material les	tReport		SQS www.sqs.net.au
Report Number:	T-22-681-11		SOIL QUALITY SERVICES
Issue Number:	1		AMB Geotech SQS Pty Ltd
Date Issued:	27/02/2023		ABN 36 631 788 620
Client:	Newlands Civil Construction Pty Ltd		SQS
	6 Ann Street (PO Box 3407), Toowoomba QLD 4350		Toowoomba Laboratory
Project Number:	T-22-681		15 Rocla Court Toowoomba QLD 4350
Project Name:	63 Redbank Creek Road, Adare - Sub-division		Phone: (07) 4633 4875
Work Request:	10179		Email: Toowoomba@sqs.net.au
Date Sampled:	23/02/2023	~	Accredited for compliance with ISO/IEC 17025 - Testing
Dates Tested:	24/02/2023 - 24/02/2023		11
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted	NATA	dance-
Preparation Method:	AS 1289.1.1 - Sampling and preparation of soils	V	Approved Signatory Kevin Kivinen
Specification:	COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)	ACCREDITATION	Laboratory Manager NATA Accredited Laboratory Number ² 2911
Site Selection:	Selected by Client		
Location:	Adare Subdivision - Dam 1 General Fill		
Material:	Silty Sandy Clay		
Material Source:	Existing / Cut to Fill		

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Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1

Compaction Method	Standard	Standard	Standard
Density Ratio %	100.0	99.5	98.5
Moisture Ratio %	102.0	101.5	102.5
Moisture Variation %	0.0	0.0	-0.5
Adjusted Optimum Moisture Content %	**	**	**
Optimum Moisture Content %	12.0	12.5	14.5
Adjusted Maximum Dry Density t/m ³	**	÷	**
Maximum Dry Density t/m ³	1.78	1.75	1.73
Field Dry Density t/m ³	1.78	1.74	1.70
Field Moisture Content %	12.2	12.8	14.9
Field Wet Density t/m ³	2.00	1.96	1.95
Method used to Determine Plasticity	Visual	Visual	Visual
Curing Hours	2.8	2.2	2.0
Oversize (dry basis) %	**	**	**
Oversize (wet basis) %	**	**	**
Fraction Tested (mm)	19.0	19.0	19.0
Test Depth (mm)	175	175	175
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
Thickness of Layer (mm)	200	200	200
Layer / Reduced Level	General Fill	General Fill	General Fill
Elevation (m)	108.635	108.635	108.145
Northing	6954063.100	6954061.400	6954066.100
Easting	430074.200	430099.600	4300064.600
Test Request #/Location	Dam 1	Dam 1	Dam 1
Time Tested	09:30	09:50	10:30
Date Tested	23/02/2023	23/02/2023	23/02/2023
Sample Number	T-10179A	T-10179B	T-10179C

Moisture Variation Note:

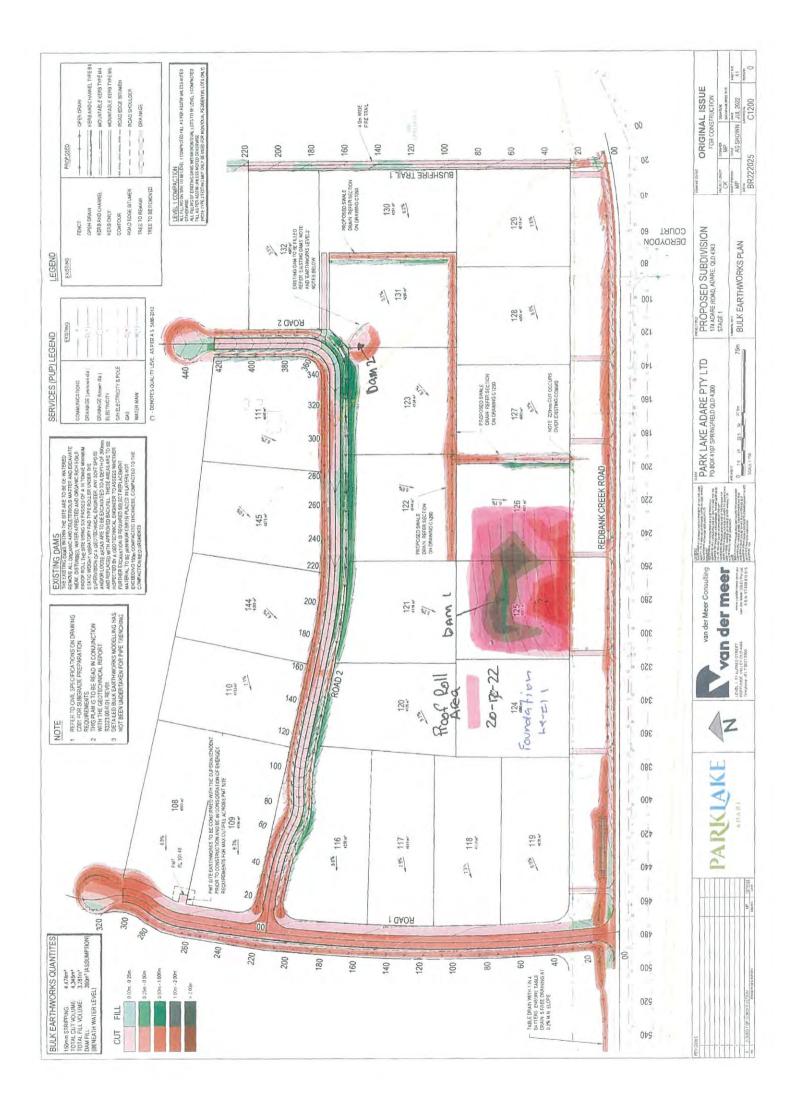
Positive values = test is dry of OMC

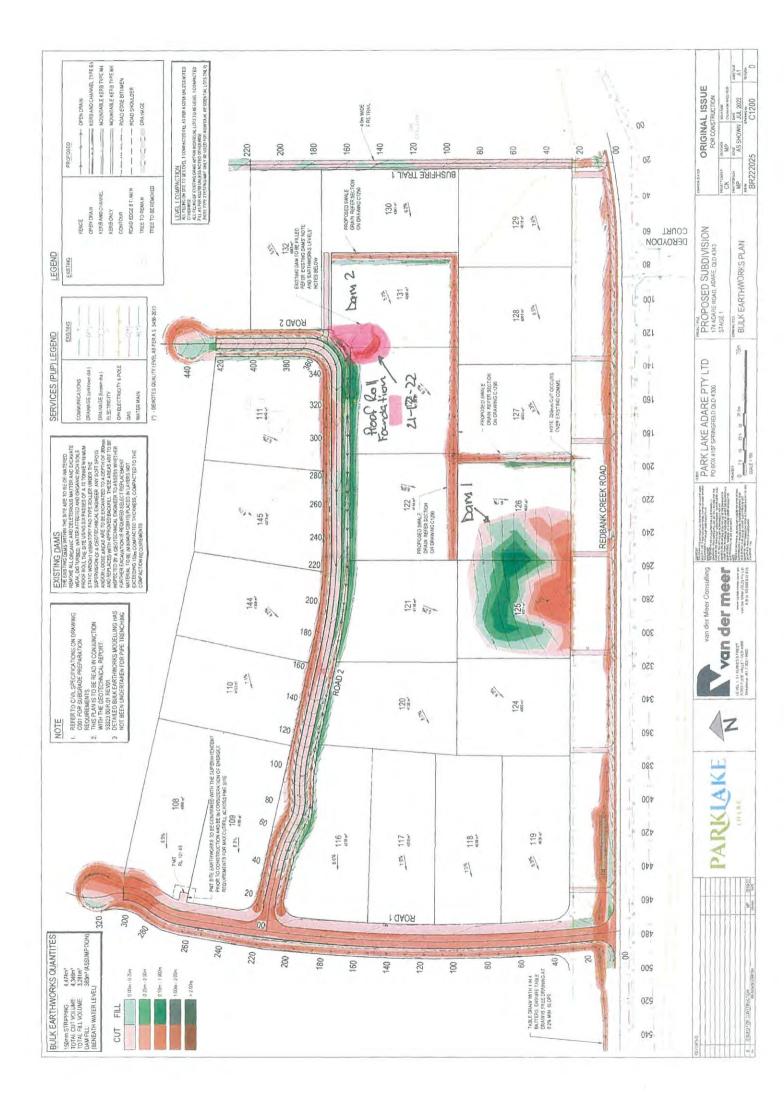
Report Number: Issue Number: Date Issued:	T-22-681-18 1 07/03/2023		SOIL QUALITY SERVICES AMB Geotech SQS Pty Ltd ABN 36 631 788 620
Client:	Newlands Civil Construction Pty Ltd 6 Ann Street (PO Box 3407), Toowoomba QLD 4350		SQ5 Toowoomba Laboratory
Project Number:	T-22-681		15 Rocla Court Toowoomba QLD 435
Project Name:	63 Redbank Creek Road, Adare - Sub-division		Phone (07) 4633 487
Vork Request:	10304		Email Toowoomba@sqs.net.a
ate Sampled:	03/03/2023	~	Accredited for compliance with ISO/IEC 17025 - Testing
Dates Tested:	03/03/2023 - 04/03/2023		11
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted	NATA	des-
Preparation Method:	AS 1289.1.1 - Sampling and preparation of soils	V	Approved Signatory Kevin Kivinen
Specification:	COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)	ACCREDITATION	Laboratory Manager NATA Accredited Laboratory Number: 2911
_ocation:	Adare Subdivision - Lots 125, 126 General Fill		
laterial:	General Fill		
Material Source:	Existing / Cut to Fill		

Sample Number	T-10304A	T-10304B	T-10304C
Date Tested	03/03/2023	03/03/2023	03/03/2023
Time Tested	08:20	08:30	08:40
Test Request #/Location	Lot 125	Lot 125	Lot 126
Easting	430060.100	430095.170	430141.800
Northing	6954033.900	6954027.100	6954027.300
Elevation (m)	106.903	105.967	Layer 1
Layer / Reduced Level	General Fill	General Fill	General Fill
Thickness of Layer (mm)	200	200	200
Soil Description	Sandy Silty Clay	Sandy Silty Clay	Sandy Silty Clay
Test Depth (mm)	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0
Oversize (wet basis) %	4. 4	**	**
Oversize (dry basis) %	**	**	**
Curing Hours	2.8	2.5	2.0
Method used to Determine Plasticity	Visual	Visual	Visual
Field Wet Density t/m ³	2.09	2.09	2.11
Field Moisture Content %	13.3	10.0	9.3
Field Dry Density t/m ³	1.85	1.90	1.93
Maximum Dry Density t/m ³	1.85	1.90	1.93
Adjusted Maximum Dry Density t/m ³	**	**	**
Optimum Moisture Content %	15.0	11.5	11.0
Adjusted Optimum Moisture Content %	k#	**	**
Moisture Variation %	2.0	1.5	1.5
Moisture Ratio %	88.5	85.0	85.0
Density Ratio %	99.5	100.0	99.5
Compaction Method	Standard	Standard	Standard

Moisture Variation Note:

Positive values = test is dry of OMC Negative values = test is wet of OMC







DAILY EARTHWORKS

SQS T-22-681

Client : Newlands Civil Construction Pty Ltd Project #:

Location:

Test Date: 20/12/2022 Project Name: 63 Redbank Creek Road, Adare -Sub-division

Tested By: sqs-michaelc

Work Request: 9647

Level 1 Monitoring Worksheet

Daily Checks (AS	3798)			-		-					
Have you undertaken a s				· · · · ·	Yes						
	ly works program with Clients site foreman?				Yes	1					
Has a stripped survey be	en done for the	area?			Yes	lf not, takes super	place on the	nt about get area, Discus	ting It done. It must be done as movement, water issues e	before filling to with site	
Does the fill area look as	it was when yo	ou were last here	?	,	res	lf not, Make	check levels	and comparing this issue	e to last ones taken are they . Call Supervisor to discuss	r comparable	
										<u> </u>	
Has unsuitable material b	een removed?			`	/es	Recon	d material de	scription, loc	ation, and where it was sen	t	
Does the material meet sp	pecifications a	nd is it fit for purp	oose?		/es	lf not, issue.	speak to clier	nt about othe	er sources of material, Make	notes on thi	
Have you noted the sourc	e of the materi	al?	- <u></u>		/es			. <u>-</u> <u>-</u>			
is the material at a suitabl			nt?		s / No	lf not, i specifi	is there a way cations? Mak	y to moisture e notes on t	condition the material to bri	ing it within	
Have you marked on the p	lan where the	n where the material is being placed today?				Refer t	to plan				
				- r		ļ	· <u> </u>	Ma	arked with GPS		
Have you done required testing for the day?					es						
Have you got accurate and useful locations for tests taken? Have you noted on a plan of the job the approximate locations of tests aken?					ves No	Marked with GPS Marked with GPS					
worked on?	ut the summary sheet including hours onsite and lots				es						
lave you filled out Daily N	e you filled out Daily Monitoring Sheet with actions taken for the day?										
lave you noted constructi					es						
Have you made notes of a contractors ?	ny significant o	conversations ha	d with the client	tor I	10	N/A					
lave you estimated quant	ity of material	placed for the da	y	Y	es						
Weather Observations		·····		F	ne						
Potential Contamir	ations / E	nvironment	al Indication	าร							
Note		foreman and s			ELY if a	inv of ti	he following	are detect	led.	_	
Odorous Material	No	Stained Mat		No	·····		Material	No	Potential Petroleum Contamination	No	
Hazardous Building Materials	No	General Wa Material	ste	No							
Remarks		<u> </u>			·		l.	·			
quipment											
Compactor	No	Size ?		Grader	,	Yes	}		Highway Truck	Vee	
Roller- Padfoot	Yes	Weight?		Bulldozer		No	Size ?			Yes	
Roller- Smoothdrum	No	Weight?	├──					_ 	Moxy	No	
Vater Cart			<u> </u>	Excavato		Yes	Size ?		Scraper	No	
	Yes	.L					<u></u>			<u> </u>	
Other	1										

Remarks
Proof rolled dam 1 area with loaded water cart with no visible movement. Placing material @ 300mm lose layers than testing @ 250mm compacted layer with good moisture.
3 x AS1289.5.8.1 3 x AS1289.35.1.1
1 x Pad Foot Roller 1 x Grader 1 x Water Cart 1 x Excavator
Onsite Hours 5
-

S	O	S
-	~~,	~

Client : Newlands Civil Construction Pty Ltd Project #:

T-22-681

Project Name: 63 Redbank Creek Road, Adare -Sub-division

Location:

Test Date: 21/12/2022

Tested By:

sqs-michaelc

Work Request: 9656

Level 1 Monitoring Worksheet

Daily Checks (AS	3798)						-					
Have you undertaken a sa			_		res							
Have you discussed daily	works program	n with Clients sit	e foreman?		res				<u> </u>			
Has a stripped survey bee	n done for the	area?			/es	if not, s takes p superv	place on the a	nt about getti area, Díscus:	ng it done, It must s movement, wate	be done b r issues etc	efore filling with site	
Does the fill area look as it	twas when yo	u were last here	?		íes	if not, o Make r	check levels	and compare	to last ones taker Call Supervisor to	nare they d	comparable	
							io tob ingatal	ig and 10000	Can Supervisor (0 0130035.		
Has unsuitable material be	en removed?				es	Record	l material de:	cription, loca	ation, and where it	was sent		
Does the material meet sp	ecifications ar	id is it fit for purp	oose?	`	es .	lf not, s issue.	speak to clier	it about othe	r sources of mater	ial. Make n	iotes on this	
Have you noted the source	of the materi	al?	<u></u>	1	es	1					<u>.</u>	
is the material at a suitable	e moisture con	tent for placeme	nt?		'es	lf not, is specific	s there a way cations? Mak	to moisture e notes on th	condition the mate	niał to brin	g it within	
Have you marked on the p	ian where the	material is being	niaced todau?	· · · · ·	No	Refer to						
inte journamed en die p		material is Dellig	piaced ioday :	1	<u>vu</u>	reier u	o pian		rked with GPS	-		
lave you done required te	sting for the d	Y	'es		<u> </u>		Net WILL GPS					
	ave you got accurate and useful locations for tests taken?					Marked with GPS						
lave you noted on a plan of the job the approximate locations of tests aken?					No	Marked with GPS						
lave you filled out the surr vorked on?	ve you filled out the summary sheet including hours onsite and lots rked on?											
lave you filled out Daily M	? Y	es										
lave you noted construction					es							
lave you made notes of an contractors ?	·			tor 1	ła 	N/A						
lave you estimated quanti	ty of material j	placed for the da	y	Y	es						••	
Meather Observations				F	ne							
Potential Contamin	ations / E	nvironmenta	al Indicatio	ns					·			
Note	Notify site	foreman and s	site manager	IMMEDIAT	ELY if a	iny of th	ne following	are detect	ed.			
Odorous Material	No	Stained Mat	erial	No	Delete	rious N	laterial	No	Potential Petr Contamination		No	
Hazardous Building Materials	No	General Wa Material	ste	No							<u> </u>	
Remarks		<u>_</u>										
quipment												
Compactor	No	Size ?		Grader		Yes	1		Highway	Truck	Yes	
Roller- Padfoot	Yes	Weight ?	16t	Bulidozer	-1	No	Size ?		Moxy		No	
Roller- Smoothdrum	No	Weight ?]	Excavato	r ``	Yes	Size ?	201			No	
Nater Cart	Yes		d a			<u>.</u>	1	<u> </u>				
		_1										

Remarks	
Time	Remarks
	Conducted proof roll on dam 2. Conducted proof roll with loaded water cart with no visible movement. Started to place existing cut to fill material on dam 2 @ 300mm lose layers than testing @ 250mm compacted layers with good moisture. Also Testing subgrade level on road 2
	3 x AS1289.5.8.1 3 x AS1289.5.1.1
	1 x Grader 1 x Water Cart 1 x Excavator 1 x Pad Foot Roller
	Onsite Hours 5

.

SQS

Newlands Civil Construction Pty Ltd Project #: Client :

T-22-681

Project Name: 63 Redbank Creek Road, Adare -Sub-division

Location:

Test Date:

22/12/2022

Tested By: sqs-michaelc

Work Request: 9661

Level 1 Monitoring Worksheet

Daily Checks (AS	3798)										
Have you undertaken a sa					Yes						
Have you discussed daily	ave you discussed daily works program with Clients site foreman?				Yes		-	·			
Has a stripped survey bee	n done for the	area?			Yes	takes p	If not, speak to client about getting it done, it must be done before takes place on the area. Discuss movement, water issues etc with supervisor				
Does the fill area look as it	was when yo	u were last here?	7		Yes	if not	chack levels :	and compa			
						Maker	notes regardi	ng this issu	e, Call	st ones taken.are they o Supervisor to discuss.	comparable'
Has unsuitable material be	en removed?			, in the second s	Yes	Record	I material des	cription lo	cation,	and where it was sent	
Does the material meet sp	ecifications an	id is it fit for purp	ose?		Yes	lf not, s issue.	speak to clien	taboutoth	er sou	ces of material. Make n	otes on this
Have you noted the source	of the materia	al?			Yes				_		
s the material at a suitable			nt?		Yes	lf not, i	s there a way	to moistur	e cond	ition the material to brin	g ít within
·			· ···			specific	ations? Mak	e notes on	this les	ue	
have you marked on the pl	an where the	material is being	placed today?	T	No	Refer to	o plan				
1					-	<u> </u>		N	iarked	with GS	
lave you done required te				_	Yes						
lave you got accurate and					Yes		Marked with GPS				
Have you noted on a plan of the job the approximate locations of tests taken?					No	Marked with GPS					
lave you filled out the sum vorked on?	mary sheet in	cluding hours on	site and lots		Yes						
lave you filled out Daily M				?	Yes						
lave you noted construction					Yes						
lave you made notes of an contractors ?				tor	No	N/A					
lave you estimated quantit	y of material p	placed for the day	Y		/es						
Neather Observations				F	ine						
Potential Contamin	ations / E	nvironmenta	al Indicatio	ns							
Note	Notify site	foreman and s	ite manager	IMMEDIA ⁻	TELY if a	iny of th	ne following	are detec	ted.		
Odorous Material	No	Stained Mat		No		erious N	i i	No	Po	tential Petroleum	No
Hazardous Building Materials	No	General Was Material	ste	No							
Remarks											
quipment											
Compactor	No	Size ?		Grader		Yés	-			Highway Truck	Yes
Roller- Padfoot	Yes	Weight ?	16t	Bulidoze	r	No	Size ?		••••	Moxy	No
Roller- Smoothdrum	No	Weight ?		Excavate	or	Yes	Size ?			Scraper	No
			• • • • • • • • • • • • • • • • • • • •	·							
Nater Cart	Yes	{									

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المتحجج معاديته والعادية والمتدارين

Remarks
Placing existing cut to fill material on dam 2. Placing material at 300mm lose layers than testing at 250mm compacted layers with good moisture.
3 x AS1289.5.8.1 3 x AS1289.5.1.1
1 x Water Cart 1 x Grader 1 x Excavator 1 x Pad Foot Roller 2 x Body Trucks
Onsite Hours 3

Worksheet id #17250913 Checked By: Michael Cameron , Date 09/01/2023

SQS

Client : Newlands Civil Construction Ply Ltd Project #:

T-22-681

Project Name: 63 Redbank Creek Road, Adare -Sub-division

Location:

Test Date: 10/01/2023

Tested By: sqs-michaelc

Work Request: 9693

Level 1 Monitoring Worksheet

Daily Checks (AS	3798)			·· · · · ·						-	
Have you undertaken a sa					Yes					<u> </u>	_
Have you discussed daily		n with Clients sit	te foreman?		Yes	1	•				
Has a stripped survey bee	en done for the	area?			res	lf not, s takes p superv	nace on the	at about getti area. Discus	ing it do s move	ne. It must be done b ment, water issues et	efore filling c with site
Does the fill area look as i	t was when yo	u were last here	?	Y	íes	lf not, c Make r	check levels notes regard	and compare	to last . Call S	ones taken are they upervisor to discuss.	comparable
Has unsuitable material be	en removed?			Y	/es	Record	I material de	scription, loca	ation, a	nd where it was sent	
Does the material meet sp	ecifications an	d is it fit for purp			es	if not, s	speak to clier	nt about othe	r source	es of material Make r	ioles on thi
Have you noted the source					es	<u> </u>					
is the material at a suitable	e moisture con	tent for placeme	ent?	Y	'es	If not, is specific	s there a war ations? Mak	y to moisture te notes on th	condition nis issue	on the material to brin	g it within
Have you marked on the p	an where the	material is being	placed today?		No	Refer to plan					
						Marked with GPS					
Have you done required te	sting for the da	ay?		Y	'es						
Have you got accurate and				Y	es	Marked with GPS					
aken?	ed on a plan of the job the approximate locations of tests					Marked with GPS					
fave you filled out the sum worked on?	mmary sheet including hours onsite and lots				es						
lave you filled out Daily M		? Y	es					·			
lave you noted construction					es					· · · · · · · · · · · · · · · · · ·	
lave you made notes of al contractors ?	ny significant c	conversations ha	d with the client	tor N	lo	N/A					
lave you estimated quanti	ty of material p	aced for the da	1y	Y	es	1					
Weather Observations		······································		Fi	ne						
Potential Contamin	ations / E	nvironment	al Indication	าร							
Note			site manager l		ELY if a	any of th	ne following	are detect	ed.		
Odorous Material	No	Stained Mat	lerial	No	Delete	erious M	laterial	No		ntial Petroleum	No
Hazardous Building Materials	No	General Wa Material	iste	No						·	
Remarks					•						
quipment											
Compactor	No	Size ?		Grader		Yes				Highway Truck	Yes
Roller- Padfoot	Yes	Weight ?	16t	Bulldozer		No	Size ?	·]		Moxy	No
Roller- Smoothdrum	No	Weight?		Excavator		Yes	Size ?			Scraper	No
Water Cart	Yes	† <u> </u>	<u>!</u>				1 3.20		·] ·		140
 Dther]	<u></u> ,									
	1										

Remarks	
Time	Remarks
	Placing existing cut to fill material on dam 1. Placing material @ 250mm lose layers than testing 200mm compacted layers with good moisture. Level 1 fill has been put on hold until telstra line has been moved out of the way from fill area's.
	3 x AS1289.5.8.1 3 x AS1289.5.1.1
	1 x Grader 1 x Pozy Track 1 x Excavator 1 x Water Cart 1 x Pad Foot Roller 2 x Body Truck's
	Onsite Hour's 5.5
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		SQS
Newlands Civil Construction Pty Ltd	Project #:	T-22-681

T-22-681

Project Name: 63 Redbank Creek Road, Adare -Sub-division

Location:

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Client :

Test Date:

23/02/2023

Tested By: sqs-michaelc

Work Request: 10179

Level 1 Monitoring Worksheet

Daily Checks (AS	3798)										
Have you undertaken a safety check?					Yes				_		
Have you discussed daily works program with Clients site foreman?				- · · ·	res					······································	
Has a stripped survey been done for the area?					íes	If not, speak to client about gotting it done. It must be done before t takes place on the area, Discuss movement, water issues etc with supervisor					efore filling c with site
Does the fill area look as i	t was when yo	u were last here	?		/es	lf not	check levels	and compac			
	·	<u> </u>		<u> </u>	<u> </u>		notes regard	ing this issue	. Call	at ones taken are they Supervisor to discuss.	comparable"
Has unsuitable material b	en removed?	<u> </u>		<u> </u>	/es	Record	d material de	scription, loc	ation,	and where it was sent	
Does the material meet sp	ecifications a	nd is it fit for purp	ose?		/es	lf not, : issue.	speak to clie	nt about othe	er sour	ces of material. Make i	notes on this
			· · · · · · · · · · · · · · · · · · ·	! 		10000	·				
lave you noted the source					'es						
Is the material at a suitable moisture content for placement?					'es	If not, is there a way to moisture condition the material to bring it within specifications? Make notes on this issue					
Have you marked on the plan where the material is being placed today?					io	Refer t	o plan				
data you dogo menirod to	allan fartha d				· · · · ·			Ma	rked V	With GPS	
Have you done required testing for the day?					es						
Have you got accurate and useful locations for tests taken? Have you noted on a plan of the job the approximate locations of tests					ies No	Marked with GPS Marked with GPS					
taken? Have you filled out the summary sheet including hours onsite and lots worked on?				+ Y	es						
lave you filled out Daily M	onitorina She	et with actions tai	en for the day?	+	es						
lave you noted construction					es						
Have you made notes of any significant conversations had with the client or contractors ?				r N	lo	N/A					
lave you estimated quanti	ty of material	placed for the day	/	Y	es						
Veather Observations	·····			Fi	ne						
otential Contamir	ations / E	nvironmenta	al Indications								
Note	Notify site	foreman and s	ite manager IM	MEDIAT	ELY if a	ny of th	ne following	are detect	ed.	,	
Odorous Material	No	Stained Material		No	Deleterious Mat			No	Pot	ential Petroleum	No
Hazardous Building Materials	No	General Waste Material		No			— <u>—</u> —— — — — — — —				╶┟╌╌╾╾╼╼╌
Remarks					·		<u>-</u>			<u> </u>	
quipment											·····
Compactor	No	Size ?	G	Grader	Y	'es				Highway Truck	Yes
Roller- Padfoot	Yes	Weight ?	E	ulldozer	1	No	Size ?			Moxy	No
Roller- Smoothdrum	No	Weight ?	Weight ?		r Y	'es	Size ?			Scraper	No
Vater Cart	Yes										· · · · · · · · · · · · · · · · · · ·
Diher											

Re <u>mark</u> s	
Time	Remarks
	Prepping top layer on dam 1 by ripping watering and compacting. Started to place material on dam 1 at 250 lose layers than testing at 200mm compacted layer with good moisture.
	3 x AS1289.5.8.1 3 x AS1289.5.1.1
	1 x Water Cart 1 x Grader 1 x Pad Foot Roller 2 x Body Trucks 1 x Pozy Track
	Onsite Hours 4
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Newlands Civil Construction Pty Ltd Project #: Client :

T-22-681

Project Name: 63 Redbank Creek Road. Adare -Sub-division

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Location:

Test Date:

03/03/2023

Tested By: sqs-michaelc

Work Request: 10304

Level 1 Monitoring Worksheet

Daily Checks (AS	3798)										
Have you undertaken a safety check?					Yes						
Have you discussed daily works program with Clients site foreman?					Yes						
Has a stripped survey been done for the area?					Yes	lakes p	If not, speak to client about getting it done. It must be done before fi takes place on the area. Discuss movement, water issues etc with a supervisor				
Does the fill area look as it	was when yo	u were last here	?		Yes	lf not, o Make n	If not, check levels and compare to last ones taken are they comparable Make notes regarding this issue. Call Supervisor to discuss				
Has unsuitable material be		Yes	Record	I material de	scription, loca	tion, and where it was sen	t				
Does the material meet sp		Yes	If not, speak to client about other sources of material. Make notes on this issue.								
Have you noted the source	of the materia	a ?			Yes						
Is the material at a suitable moisture content for placement?					Yes	If not, is there a way to moisture condition the material to bring it within specifications? Make notes on this issue					
Have you marked on the plan where the material is being placed today?					No	Refer to plan					
						<u> </u>		Mar	ked with GPS		
lave you done required te					/es				· · · · · · · · · · · · · · · · · · ·		
Have you got accurate and useful locations for tests taken? Have you noted on a plan of the job the approximate locations of tests taken?					/es No	Marked with GPS Marked with GPS					
Have you filled out the summary sheet including hours onsite and lots worked on?					íes						
Have you filled out Daily Monitoring Sheet with actions taken for the day?					′es						
lave you noted constructio					es						
lave you made notes of an contractors ?	ny significant c	onversations ha	id with the client	ori I	No				N/A		
Have you estimated quantity of material placed for the day					es						
Weather Observations				Ove	ercast						
Potential Contamin	ations / Ei	rvironmenta	al Indication	าร							
Note	Notify site	foreman and s	site manager I	MMEDIAT	ELY if a	iny of th	e following	are detecte	ed.		
Odorous Material	No	Stained Material		No			laterial	Yes / No	Potential Petroleum Contamination	No	
Hazardous Building Materials	Yes	General Waste Material		No						· II	
Remarks		·····			d			<u>.</u>			
quipment											
Compactor	No	Size ?		Grader		Yes			Highway Truck	Yes	
Roller- Padfoot	Yes	Weight ?	165t	Buildozer		No	Size ?	<u> </u>	Moxy	No	
Roller- Smoothdrum	No	Weight ?		Excavato	r	No	Size 7		Scraper	No	
	······	1	<u>د</u>	-			L	l		. <u> </u>	
Vater Cart	Yes										

Remarks									
Time	Remarks								
	Placing existing cut to fill material on lots 125, 126. Placing material at 250mm lose layers than testing at 200mm compacted layers with good moisture. (Final layers for level 1)								
	3 x AS1289.5.8.1 3 x AS1289.5.1.1								
	1 x Pad Foot Roller 1 x Grader 1 x Water Cart 1 x Poxy 2 x Body Trucks								
	Onsite Hours 1								
-									