SQS
SOIL QUALITY SERVICES
AMB Geotech SQS Pty Ltd
ABN 36 631 788 620

LEVEL 1 EARTHWORKS

Subdivision Stage 4 & 5, 174 Adare Road

Adare Qld 4343

CERTIFICATE

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ABN 36 631 788 620

CHINCHILLA
Ray Hicks
PHONE: 0428 187 579

02nd April 2025
Newlands Civil Construction Pty Ltd,
6 Ann Street
TOOWOOMBA QLD 4350

Dear Sir

RE: LEVEL 1 EARTHWORKS
SUBDIVISION STAGE 4 & 5, 174 ADARE ROAD, ADARE QLD 4343

Supervision of earthwork operations was carried out at the above location by Soil Quality Services (SQS). The Level 1 Supervision and associated field density testing on the earthworks was commenced on 10-09-2024 and was completed on 12-03-2025.

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 Soil Quality Services. 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 the fill 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% OMC for 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 work was undertaken at Subdivision 174 Adare Road, Adare Stage 4 & 5 – Drawing No C4001 Rev 0 Standard Notes, Drawing No C4200 Rev 3 Bulk Earthworks Plan Sheet 1, Drawing No C4201 Rev 0 Bulk Earthworks Plan Sheet 2, and Drawing No C4202 Rev 0 Bulk Earthworks Plan Sheet 1

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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

GENERAL NOTES

G1. ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BMS OR SSM.

G2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.

G3. ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH COUNCIL'S SPECIFICATIONS AND THE DIRECTIONS OF THE SUPERINTENDENT.

G4. DIMENSIONS MUST NOT BE SCALED FROM DRAWINGS.

G5. CONTRACTOR TO ENSURE THAT ALL ROADWORKS ARE SMOOTHLY TRANSITIONED TO EXISTING LEVELS FREE FROM ABRUPT CHANGES.

G6. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR. FURTHER, THE LOCATION OF RECOVERY MARKS SHOULD BE VERIFIED AND CONFIRMED BY THE CONTRACTOR AND ANY DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF WORK.

G7. AT COMPLETION OF WORKS ALL ADJOINING DISTURBED AREAS ARE TO BE REINSTATED TO THE "AS FOUND" CONDITION.

G8. THE CONTRACTOR SHALL ENSURE ALL AREAS DRAIN WITH A MINIMUM FALL OF 1% (1:100) GRADE TO OUTLETS UNLESS INDICATED OTHERWISE. NO WORKS SHALL CAUSE PONDING OF STORMWATER ON UPSTREAM PROPERTIES OR CONCENTRATE RUNOFF ONTO DOWNSTREAM PROPERTIES.

G9. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, ELECTRICAL, RETICULATION, WATER AND SEWER DRAWINGS AND SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.

G10. THE CONTRACTOR SHALL ENSURE THAT ALL PAVEMENTS GRADE EVENLY BETWEEN NOMINATED RL'S ON PLAN AND NO POND OF WATER OCCURS.

G11. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METERS.

G12. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.

G13. WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

G14 THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE ENGINEER BUT IS NOT AN AUTHORIZATION FOR AN EXTRA. ANY EXTRAS INVOLVED MUST BE TAKEN UP WITH THE SUPERINTENDENT BEFORE THE WORK COMMENCES.

G15 THE CONTRACTOR IS TO EMPLOY A QUALIFIED GEOTECHNICAL ENGINEER AS REQUIRED FOR ALL GEOTECHNICAL ASPECTS OF THE BUILDING WORKS. REFER TO FOUNDATION, GROUNDWORKS AND RETENTIONHORING NOTES. REFER ALSO TO THE GEOTECHNICAL REPORT FOR THIS PROJECT.

G16 ORIGINAL SURVEY WAS COMPLETED BY BPLANNED & SURVEYED PH.1300 275 266

SUBGRADE PREPARATION

RW1. REMOVE ALL VEGETATION, TOPSOIL AND DELETERIOUS MATERIAL FROM AREA OF PROPOSED BUILDING PLATFORM AND PAVEMENTS.

RW2. PROOF ROLL EXPOSED SUB GRADE TO ACHIEVE A MINIMUM COMPACTION OF 98% STANDARD MAXIMUM DRY DENSITY (SMDD), DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1.

RW3. REMOVE ANY SOFT, HEAVING, WET OR UNSTABLE AREAS IDENTIFIED DURING PROOF ROLLING AND REPLACE USING SELECT IMPORTED FILL COMPACTED IN LAYERS NOT EXCEEDING 200mm MEASURED LOOSE TO ACHIEVE A MINIMUM 98% STANDARD MAXIMUM DRY DENSITY.

RW4. NOTE THAT THE SITE IS UNDERLAIN BY EXISTING SERVICES AND COMPACTION UTILISING VIBRATION MAY NOT BE SUITABLE IN THE VICINITY OF UNDERGROUND SERVICES.

RW5. ANY FILL REQUIRED TO RAISE LEVELS TO BULK EARTHWORKS TO WITHIN 50mm OF NOMINATED LEVELS IS TO BE APPROVED GRANULAR MATERIAL COMPACTED IN LAYERS NOT EXCEEDING 300mm MEASURED LOOSE TO 98% STANDARD MAXIMUM DRY DENSITY WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC).

RW6. THE CONTRACTOR IS TO PROVIDE CERTIFICATION TO THE EFFECT THAT EARTHWORKS COMPACTION TO 98% STANDARD MAXIMUM DRY DENSITY, (AS 1289 E1.1, E4.1) HAS BEEN ACHIEVED, UNLESS OTHERWISE AGREED IN WRITING BY SITE SUPERINTENDENT.

RW7. THE CONTRACTOR IS TO PROVIDE TO THE SITE SUPERINTENDENT A SURVEY CONFIRMATION FROM A REGISTERED SURVEYOR, CONFIRMING BULK EARTHWORKS LEVELS AS WITHIN +/-50mm OF LEVELS NOMINATED.

RW8. SUBGRADE REPLACEMENT MATERIAL IS TO CONSIST OF CLEAN, UNCONTAMINATED, WELL-GRADED MATERIAL WITH A MAXIMUM PARTICLE SIZE OF 75mm, WITH 60% LESS THAN 20mm, AND A SOAKED C.B.R. GREATER THAN 10% AND A PLASTICITY INDEX LESS THAN 12.

RW9. BACK FILLING FOR SERVICE TRENCHES AND REMOVED SERVICES OR PITS OR FOUNDATIONS IS TO USE APPROVED WELL-GRADED GRANULAR MATERIAL WITH MINIMUM VOIDS, (EITHER SELECT INSITU OR IMPORTED FILL), COMPACTION AS SPECIFIED ABOVE.

RW10. ALL EARTHWORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AS3798-1996: GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.

GENERAL EARTHWORKS

E1. THE SITE OF THE WORKS SHALL BE PREPARED BY STRIPPING ALL EXISTING TOPSOIL, FILL AND VEGETATION.

E2. COMPACT SUBGRADE TO 98% OF THE STANDARD MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 1289 TESTS E.1.1. OR E.1.2. THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED TO DETECT ANY SOFT OR WET AREAS WHICH SHOULD BE LOCALLY EXCAVATED AND BACK FILLED WITH SELECTED MATERIAL. THE BACK FILLING MATERIAL SHALL BE IMPORTED GRANULAR FILL OF LOW PLASTICITY, PREFERABLY CRUSHED SANDSTONE, AND TO BE PLACED IN LAYERS NOT EXCEEDING 300mm LOOSE THICKNESS AND COMPACTED TO 98% OF STANDARD MAXIMUM DRY DENSITY WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT. SITE WORKS ARE TO BE BATTERED TO ADJACENT PROPERTY LEVELS.

E3. NO STORMWATER IS TO POND ON ADJOINING PROPERTIES. THE SITE SHALL BE GRADED AND DRAINED SO THAT STORMWATER WILL BE DIRECTED AWAY FROM THE BUILDING PLATFORM. STORMWATER DRAINAGE SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION. ALL STORMWATER RUNOFF SHALL BE GRADED AWAY FROM THE DWELLING AND DISPOSED OF VIA SURFACE CATCHDRAINS AND STORMWATER COLLECTION PITS.

E4. ENSURE ALL RETAINING WALLS ARE CONSTRUCTED WITH ADEQUATE SUBSOIL DRAINAGE.

GROUND WORKS AND EXCAVATION

GW1. ALL GROUND WORKS AND EXCAVATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT: 93323.00.R.01.Rev01.

GW2. SEPARATE AND REMOVE ALL TOPSOIL, NON SOIL MATERIAL, CONCRETE, VEGETATION, BRICKBATS, TIMBER, ROOT AFFECTED SOIL AND EXISTING FILL. STORE TOPSOIL IF REQUIRED.

GW3. ALL EXCAVATIONS SHALL BE FINISHED CLEAN AND HORIZONTAL AND SHALL NOT UNDERMINE FOOTINGS, WALLS etc..

GW4. PROOF ROLL WITH AN 8 TONNE ROLLER, REPLACE ANY SOFT MATERIAL WITH APPROVED FILL AND RE-COMPACT. GEOTECHNICAL ENGINEER TO APPROVE.

GW5. THE FILL IS TO BE PLACED AND COMPACTED IN LAYERS OF MAXIMUM LOOSE THICKNESS 300mm.

GW6. TOP LAYER OF PAVED AREAS TO BE COMPACTED TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY. GEOTECHNICAL ENGINEER TO VERIFY.

GW7. ALL PERMANENT EMBANKMENTS TO BE COMPACTED IN 200 mm LAYERS AS PER NOTE GW6 AND AT A MAXIMUM SLOPE OF 1 VERTICAL TO 2.5 HORIZONTAL UNLESS NOTED OTHERWISE. SHOULD DRAINAGE BE REQUIRED THEN SUBMIT DETAILS TO THE ENGINEER.

GW8. ALL GROUND WORKS SHALL BE TESTED BY AN APPROVED GEOTECHNICAL ENGINEER TO A LEVEL 1 STANDARD IN ACCORDANCE WITH AS 3798 - 1996.

GW9. ALL EXCAVATIONS TO BE INSPECTED AT REGULAR INTERVALS BY A GEOTECHNICAL ENGINEER.

GW10. REFER TO ARCHITECTURAL DRAWINGS TO CONFIRM SETOUT OF BUILDINGS, CARPARKS ETC.

GW11. THE LEVELS SHOWN ARE ONLY RELEVANT TO THE PLAN UPON WHICH THEY ARE SHOWN.

GW12. ALL CONTOURS AND LEVELS USED TO PRODUCE EARTHWORK DETAILS HAVE BEEN BASED ON SURVEYOR AND ARCHITECTS SURVEY INFORMATION.

GW13. ALL FINISHED FLOOR LEVELS ARE TO BE CONFIRMED BY ARCHITECT.

GW14. ALL EXISTING SERVICES ARE TO BE CAPPED OFF PRIOR TO ANY WORKS.

GW15. A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE CONTRACTOR, THE GEOTECHNICAL ENGINEER, AND THE EARTHWORKS CONTRACTOR TO UNDERSTAND POTENTIAL DIFFICULTIES AND TO ORGANISE TESTING PROCEDURES. THE CONTRACTOR SHALL CONFIRM TO THE ENGINEER THAT THE MEETING HAS BEEN HELD.

DRAINAGE NOTES

D1. PIT LEVELS SHOWN ON STORMWATER DRAINAGE PLANS ARE FOR INFORMATION. EXACT PIT LEVELS TO BE ADJUSTED TO SUIT FALLS IN PAVEMENT/LANDSCAPED AREA.

D2. PITS GREATER THAN 1.2m DEEP TO BE FITTED WITH STEP IRONS.

D3. DRAINAGE PIPES SHALL BE BACKFILLED WITH COMPACTED CLEAN SHARP SAND TO 200 ABOVE PIPE OBVERT. ADDITIONAL BACKFILL UNDER ROADS SHALL CONSIST OF CLASS 2 F.C.R. MATERIAL COMPACTED IN 200mm LAYERS TO 98% SMDD. UNDER LANDSCAPED AREAS ADDITIONAL BACKFILL SHALL CONSIST OF GRANULAR MATERIAL COMPACTED IN 200mm LAYERS TO 95% SMDD.
A 3m LENGTH OF 100 Ø SLOTTED AGRICULTURAL LINE SURROUNDED BY GEOTECH STOCKING SHALL BE PROVIDED ON THE UPSTREAM SIDE OF ALL PITS.

D4. CONCRETE STORMWATER PIPES TO BE CLASS '3' UNDER ROADS AND CLASS '2' IN NON-TRAFFICED AREAS. ALL PIPES GREATER THAN 3000 ARE TO BE RUBBER RING JOINTS U.N.O.

D5. CONCRETE PITS GREATER THAN 1.0m DEEP TO BE REINFORCED WITH N12-200 EACH WAY CENTRED, MIN. 300 LAP, CONCRETE - F'c 25MPa

D6. 150Ø, 225Ø AND 300Ø uPVC PIPES TO BE SEWER GRADE PIPE UNDER TRAFFICABLE PAVEMENT. MIN. 400 COVER UNDER NON-TRAFFICABLE PAVEMENT.

D7. PIT COVERS AND GRATED DRAINS IN TRAFFICABLE PAVEMENT TO BE AS 3996 CLASS D "HEAVY DUTY" AND IN NON-TRAFFICABLE AREAS TO BE AS 3996 CLASS C "LIGHT DUTY".

D8. SUPERINTENDENT TO APPROVE LOCATION OF SUBSOIL OUTLET HEADWALLS IN ACCORDANCE WITH IPWEAQ STD DRG RS-142.

UTILITY SERVICES

S1. CONDUITS TO BE PROVIDED FOR WATER AND ENERGY AUTHORITIES, TELSTRA AND OTHER SERVICES AS REQUIRED.

S2. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THESE DRAWING'S HAVE BEEN PLOTTED FROM SURVEY AND AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

S3. VAN DER MEER CANNOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS, ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN ARISING FROM ANY CAUSE WHATSOEVER.

S4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.

S5. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ON SITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

S6. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION OR FUTURE WORKS.

S7. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

TELSTRA - DUTY OF CARE NOTE:
TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR UPHOLD THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY.

THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POT HOLING TO IDENTIFY IT'S LOCATION. TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.

ELECTRICAL AND GAS NETWORK:
A MINIMUM OF 30 DAYS PRIOR TO COMMENCEMENT OF EXCAVATION WORKS THE SUBCONTRACTOR MUST CONTACT DIAL BEFORE YOU DIG.

RETAINING WALL GENERAL

GR1. BASE MATERIAL SHALL BE COMPACTED TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY (SMDD) WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SMOC) DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1. MINIMUM ALLOWABLE BEARING PRESSURE OF 150 kPa. GEOTECHNICAL ENGINEER EMPLOYED BY CONTRACTOR TO INSPECT AND CONFIRM.

GR2. DRAINAGE MATERIAL WITHIN AND IMMEDIATELY BEHIND THE WALL SHALL BE 12-20mm CLEAN AGGREGATE. DRAINAGE MATERIAL TO EXTEND A MINIMUM 300mm BEHIND WALL. COMPACT DRAINAGE MATERIAL. ALTERNATIVELY, USE NO FINES CONCRETE, AS FOLLOWS:
- CONCRETE STRENGTH N15.
- 210kg/m3 PORTLAND CEMENT
- MAXIMUM AGGREGATE SIZE 20 mm.
- W/C RATIO 0.45 TO 0.55.
- DENSITY 1600 TO 2000 kg/m3.

GR3. INFILL SOIL SHALL BE CLASS 1 CONTROLLED FILL TO AS4678, OR AS SPECIFIED ON THE DRAWINGS. UNSUITABLE SOILS, SUCH AS HEAVY CLAYS OR ORGANIC SOILS WITH HIGH PLASTICITY, SHALL NOT BE USED IN THE REINFORCED SOIL MASS.

GR4. SPREAD BACKFILL IN UNIFORM LIFTS OF 200mm UNCOMPACTED THICKNESS. COMPACT TO MINIMUM 95% OF SMDD. COMPACTION WITHIN 1.0 m BEHIND THE WALL SHALL BE ACCOMPLISHED BY USING A HAND-OPERATED PLATE COMPACTOR AND SHALL BEGIN BY RUNNING THE PLATE DIRECTLY ON THE BLOCK, THEN COMPACTING IN PARALLEL PATHS, PROGRESSIVELY AWAY FROM THE WALL FACE.

GR5. WHERE ROADWAYS OR BUILDING STRUCTURES ARE LOCATED ABOVE THE REINFORCED ZONE, COMPACT TO 98% SMDD WITHIN 2% OF SOMC DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1. COMPACTION TESTING SHALL BE TAKEN AT 1.2m BEHIND THE WALL.

PAVEMENT

F1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS.

F2. PAVEMENT MATERIAL SHALL CONSIST OF APPROVED OR RIPPED SANDSTONE, NATURAL GRAVEL OR FINE CRUSH ROCK AS PER COUNCIL SPECIFICATION.

F3. PAVEMENT MATERIALS SHALL BE SPREAD IN LAYERS NOT EXCEEDING 150mm AND NOT LESS THEN 75mm COMPACTED THICKNESS. PAVEMENT MATERIALS SHALL BE SIZED AND OF A STANDARD OUTLINED IN AS1141.

F4. CRUSHED OR RIPPED SANDSTONE SHALL BE MINUS 75mm NOMINAL SIZE DERIVED FROM SOUND, CLEAN SANDSTONE FREE FROM OVERBURDEN, CLAY SEAMS, SHALE AND OTHER DELETERIOUS MATERIAL.

F5. PAVEMENT MATERIALS SHALL BE COMPACTED BY SUITABLE MEANS TO SATISFY THE FOLLOWING MINIMUM SPECIFICATIONS (AS PER AS1289.52)

DESCRIPTION	MODIFIED DENSITY RATIO
SUB-BASE	98% MDD
BASE COURSE	98% MDD
ASPHALTIC CONCRETE	97% MDD

AND SUBJECT TO COUNCIL'S CONSTRUCTION SPECIFICATION.

F6. TESTING FOR EACH LAYER SHALL BE UNDERTAKEN BY A N.A.T.A. REGISTERED LABORATORY IN ACCORDANCE WITH AS1289, AT NOT MORE THAN 50m INTERVALS AND A MINIMUM OF TWO PER LAYER OR AS PER LOCAL PLANNING SCHEME. FURTHER FREQUENCY OF TESTING SHALL BE NO LESS THAN THAT REQUIRED BY AS3978-1996.

F7. A MINIMUM GRAVEL LAYER 150-200mm ABOVE THE GEOGRID SHALL BE ADHERED TO AS PER SUPPLIER (GLOBAL SYNTHETICS) REQUIREMENTS AND SPECIFICATIONS.

AS CONSTRUCTED

PRIVATE WORKS (SITE CIVIL WORKS)

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTATION TO VAN DER MEER PRIOR TO PRACTICAL COMPLETION OF CIVIL WORKS:

PW.01 A COMPLETE SURVEY OF COMPLETED SURFACE INCLUDING SURFACE LEVELS OF ALL STRUCTURES INCLUDING BUT NOT LIMITED TO:
- STORMWATER MANHOLES AND PITS.
- BIO-RETENTION AREAS, INCLUDING BASE AND TOP OF FILTER TRENCH MATERIAL AND AREA INSTALLED, IF APPLICABLE.
- WATER SERVICE CONNECTION INCLUDING FITTINGS AND METERS.
- SEWERAGE PROPERTY CONNECTIONS INCLUDING MANHOLES.
- SEWER PUMP STATIONS, IF APPLICABLE.

PW.02 COPIES OF NATA TEST CERTIFICATE RESULTS IN RESPECT OF:
- THE COMPACTION OF FILL INCLUDING COMPACTION OF TRENCH BACKFILL.
- EARTHWORKS CERTIFICATION FROM GEOTECHNICAL RPEQ INCLUDING LEVEL 1 CERTIFICATION WHERE REQUIRED.
- THE SUB-GRADE CBR.
- THE SUB-GRADE COMPACTION.
- THE LOWER SUBBASE (CBR 15) MATERIAL QUALITY.
- THE LOWER SUBBASE (CBR 15) COMPACTION.
- THE SUB-BASE COURSE (CBR 45) MATERIAL QUALITY.
- THE SUB-BASE COURSE (CBR 45) COMPACTION.
- THE BASE COURSE (CBR 80) MATERIAL QUALITY.
- THE BASE COURSE (CBR 80) COMPACTION.
- THE PRIME OR PRIMER SEAL SPRAY AND APPLICATION RATES.
- THE AC CORE TESTS.
- ANY CONCRETE TESTING REQUIRED.
- CCTV VIDEO FOR UNDERGROUND STORMWATER INFRASTRUCTURE WORK.

PW.03 DURING CONSTRUCTION, DIGITAL PHOTOGRAPHS MUST:
- BE TAKEN OF COMPLEX CONSTRUCTIONS OR INSTALLATIONS WHICH WILL BE BELOW GROUND LEVEL OR NOT VISIBLE AFTER CONSTRUCTION COMPLETION OR AS REQUESTED ON SITE.
- BE TAKEN PRIOR TO BACKFILLING.
- INCLUDE A CHAINAGE OR EXACT LOCATION REFERENCE IN THE TITLE OF THE DIGITAL PHOTO FILE.
- BE DATE STAMPED.

COUNCIL WORKS

CW.01 TO PROVIDE AS CONSTRUCTED INFORMATION AS PER LOCAL COUNCIL SUBMISSION GUIDELINES REQUIREMENTS.

REINFORCED CONCRETE BLOCKWORK

M1. CONCRETE BLOCKS SHALL BE BORAL 'CORE FILL BLOCKS', DOUBLE-U TYPE, OR SIMILAR APPROVED.

M2. MINIMUM DURABILITY REQUIREMENTS:

LOCATION	SALT ATTACK RESISTANCE GRADE OF MASONRY UNIT	MORTAR CLASS	DURABILITY CLASS OF WALL TIES AND BUILT-IN COMPONENTS
INTERIOR MASONRY	GENERAL PURPOSE	M3	R3
EXTERIOR MASONRY ABOVE DAMP PROOF COURSE	GENERAL PURPOSE	M3	R3
BELOW DAMP PROOF COURSE OR IN CONTACT WITH GROUND	EXPOSURE	M4	R4

M3. MINIMUM STRENGTH REQUIREMENTS:

ELEMENT	STRENGTH OF MASONRY UNIT	MORTAR CLASS #
CONCRETE BLOCKWORK (REINF)	fuc = 15 MPa	M3

UNLESS A HIGHER CLASSIFICATION IS REQUIRED FOR DURABILITY (REFER NOTE M2).

M4. LAY BOTTOM COURSE OF BLOCKS ON FULL MORTAR BED.

ALL PERPENDS SHALL BE FILLED WITH MORTAR, EXCEPT WEEPHOLES.

M5. ALL CORES SHALL BE GROUTED UNLESS NOTED OTHERWISE.

M6. GROUT FOR CORE FILLING SHALL BE IN ACCORDANCE WITH AS3600, WITH THE FOLLOWING PROPERTIES:
- STRENGTH GRADE 20
- MAX. AGGREGATE SIZE 10mm
- SLUMP 230mm ± 25mm
- MIN. CEMENT CONTENT 300kg/m³ M7. PROVIDE VERTICAL CONTROL JOINTS IN MASONRY WALLS AS FOLLOWS :

WALL TYPE	JOINT WIDTH	MAX JOINT SPACING
CONCRETE BLOCKWORK (REINF)	15mm	12m

M7. AT CORNERS, CONTROL JOINTS SHALL BE WITHIN HALF THE SPECIFIED JOINTS SPACING FROM THE CORNER. JOINTS SHALL BE SEALED WITH AN APPROVED FLEXIBLE SEALANT PROVIDE JOINTS TO MATCH JOINTS IN SUPPORTING SLABS.

M8. PROVIDE CLEANOUT OPENINGS AT THE BASE OF ALL REINFORCED CORES AND REMOVE ALL MORTAR PROTRUSIONS BEFORE GROUTING. ADDITIONAL CLEANOUT OPENINGS SHALL BE PROVIDED ABOVE EACH HORIZONTAL POUR BREAK.

M9. MAXIMUM HEIGHT OF POUR FOR GROUTING SHALL NOT EXCEED 3.6m FOR 190 LOCKWORK, AND 0.8m FOR 140 BLOCKWORK. STOP POUR 50mm BELOW TOP OF BLOCK TO PROVIDE KEY FOR SUBSEQUENT POUR.

M10. GROUT SHALL BE THOROUGHLY COMPACTED IN THE CORES BY RODDING OR MECHANICAL VIBRATION.

CONCRETE

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND OTHER RELEVANT AUSTRALIAN STANDARDS.

C2. CONCRETE SHALL BE SUPPLIED BY AN APPROVED MANUFACTURER IN ACCORDANCE WITH AS1379.

C3. CONCRETE SHALL HAVE THE FOLLOWING PARAMETERS:

ELEMENT	SLUMP (mm)	AGGREGATE	f'c (MPa)	OTHER REQ
EXTERNAL VEHICLE SLAB	+ 80	20	N32	(1)

+ DENOTES SLUMP AT PLANT
(1) DENOTES MAXIMUM BASE SHRINKAGE STRAIN 500 x 10^{-6} AT 56 DAYS (TO AS 1012 PART 13)

C4. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.

C5. BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY.

C6. HOLES, CHASES OR EMBEDMENT ITEMS, INCLUDING PIPES AND CONDUITS SHALL NOT BE PLACED IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

C7. CONDUITS, PIPES AND LIKE SHALL NOT BE PLACED WITHIN THE CONCRETE COVER, NOR DISPLACE THE REINFORCEMENT LAYERS.

C8. CONSTRUCTION JOINTS (CJ) SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY SCABBLED.

C9. THE MAXIMUM HEIGHT OF POUR FOR CONCRETE ELEMENTS SHALL BE 3m UNLESS METHOD OF PLACEMENT HAS BEEN APPROVED BY THE ENGINEER. COLUMNS SHALL NOT BE POURED WITH THE SLAB OVER.

C10. CONCRETE SHALL BE THOROUGHLY COMPACTED IN THE FORMS BY MEANS OF MECHANICAL VIBRATION.

C11. WHEN THE SHADE TEMPERATURE EXCEEDS 35°C, THE EXPOSED SURFACE OF CONCRETE SHALL BE SPRAYED WITH A FINE FILM OF APPROVED ALIPHATIC ALCOHOL DURING CONCRETE PLACEMENT AND FINISHING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ENSURING ADEQUATE SUPPLY OF ALIPHATIC ALCOHOL ON SITE BEFORE COMMENCING CONCRETE WORK.

C12. CURING OF CONCRETE SHALL COMMENCE WITHIN 2 HOURS OF FINISHING OPERATIONS AND SHALL BE MAINTAINED FOR A MINIMUM OF 7 DAYS USING AN APPROVED PROPRIETARY CURING COMPOUND IN ACCORDANCE WITH AS 3799 AND COMPATIBLE WITH THE PROPOSED FINISH OR CONTINUOUS PONDING WITH POTABLE WATER.
THE CONTRACTOR TO SUBMIT PROPOSED CURING PROCEDURE FOR APPROVAL OF THE ENGINEER.

C13. ALL CONCRETE DELIVERED TO SITE SHALL BE SUBJECT TO PROJECT ASSESSMENT IN ACCORDANCE WITH AS 1379.

C14. THE CONTRACTOR SHALL NOMINATE A CONCRETE DELIVERY SUPERVISOR WHO SHALL BE A SUITABLE EXPERIENCED PERSON FOR THE APPROVAL OF THE ENGINEER, TO MONITOR THE DELIVERY AND PLACING OF THE CONCRETE FOR EACH POUR ON THE PROJECT. IN ADDITION, THE MANUFACTURER SHALL SAMPLE AND TEST FOR DRYING SHRINKAGE EACH TYPE OF CONCRETE SUPPLIED, AT LEAST EVERY MONTH DURING THE COURSE OF THE PROJECT OR FOR EVERY 1000 CUBIC METRES PLACED. NATA TEST CERTIFICATES SHALL BE FORWARDED TO THE ENGINEER. THE RESULTS OF THESE TESTS SHALL ALSO BE KEPT ON SITE.

C15. CONCRETE SAMPLES AND TESTS

ARRANGE FOR A NATA REGISTERED TESTING LABORATORY TO TAKE SAMPLES OF AND TEST CONCRETE FOR COMPRESSION, FLEXURAL TENSILE STRENGTH (SLABS ON GROUND ONLY) AND SLUMP.

COMPRESSION TEST SAMPLES SHALL CONSIST OF 3 STANDARD CYLINDERS (4 STANDARD CYLINDERS FOR POST-TENSIONED CONCRETE), TESTED FOR COMPRESSIVE STRENGTH AS FOLLOWS:

ONE (1) CYLINDER AT 3 DAYS FOR POST-TENSIONED CONCRETE ONLY.
ONE (1) CYLINDER AT 7 DAYS.
TWO (2) CYLINDERS AT 28 DAYS.

THE MINIMUM NUMBER OF DAILY SAMPLES SHALL BE AS FOLLOWS:

IN COLUMNS/WALLS: 1 SAMPLE PER TRUCK

ALL OTHER CONCRETE OF ANY ONE TYPE AS FOLLOWS:
1 TRUCK PER DAY - 1 SAMPLE
2 TO 5 TRUCKS PER DAY - 2 SAMPLES
6 TO 10 TRUCKS PER DAY - 3 SAMPLES
10 TO 20 TRUCKS PER DAY - 4 SAMPLES
FOR EACH ADDITIONAL 10 TRUCKS PER DAY, 1 SAMPLE.

SLUMP: 1 SAMPLE PER TRUCK AT TIME OF POURING.

C16. REFER TO TYPICAL STRIPPING AND PROPPING DETAIL.

REVISIONS:

0	ISSUED FOR CONSTRUCTION	MP	02/08/24

PARKLAKE ADARE

van der Meer Consulting
van der meer
LEVEL 3, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 515

CLIENT: PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

PROJECT: PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE: STANDARD NOTES

DRAWING STATUS: ORIGINAL ISSUE FOR CONSTRUCTION

ENGINEER	DESIGNED	DRAWN	CHECKED
CK	MP	MP	

SCALE	DATE	SHEET SIZE
AS SHOWN	02/08/24	A1

JOB NO	DRAWING NO	REV
BR242001	C4001	0

FOR CONTINUATION REFER DWG No. C4201

TREE REMOVAL

MAJOR TREE REMOVAL SHOWN. ALL OTHER TREES WITHIN THE PARK WORKS CLEARING AREA TO BE REMOVED TO ALLOW THE PARK CONSTRUCTION TO OCCUR.

BULK EARTHWORKS QUANTITES

100mm STRIPPING: 5,869m³
CUT VOLUME: 9,486m³
FILL VOLUME: 12,484m³
DAM FILL: 430m³ (ASSUMPTION)
(2.0m DEPTH BENEATH WATER LEVEL)

EXISTING DAMS

THE EXISTING DAMS WITHIN THE SITE ARE TO BE DE-WATERED. REMOVE ALL ORGANIC AND DELETERIOUS MATTER AND EXCAVATE WEAK, DISTURBED, WATER AFFECTED AND ORGANIC RICH SOILS. PROOF ROLL THE SITE USING SIX PASSES OF A 10 TONNE MINIMUM STATIC WEIGHT VIBRATORY PAD TYPE ROLLER UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER. ANY SOFT SPOTS AND/OR LOOSE AREAS ARE TO BE EXCAVATED TO A DEPTH OF 300mm AND REPLACED WITH APPROVED BACKFILL. THESE AREAS ARE TO BE INSPECTED BY A GEOTECHNICAL ENGINEER TO ASSESS WHETHER FURTHER EXCAVATION IS REQUIRED. SELECT REPLACEMENT MATERIAL TO BE (MINIMUM CBR15) PLACED IN LAYERS NOT EXCEEDING 150m COMPACTED THICKNESS, COMPACTED TO THE COMPACTION REQUIREMENTS.

LEGEND

EXISTING		PROPOSED	
	FENCE		OPEN DRAIN
	OPEN DRAIN		MOUNTABLE KERB TYPE M4
	MOUNTABLE KERB TYPE M4		MOUNTABLE KERB TYPE M6
	MOUNTABLE KERB TYPE M6		CONTOUR (0.5m)
	CONTOUR (1.0m)		ROAD EDGE BITUMEN
	ROAD EDGE BITUMEN		ROAD SHOULDER
	TREE TO REMAIN		DRAINAGE
	TREE TO BE REMOVED		STAGE BOUNDARY
	TREE TPZ		

CUT FILL

CUT	FILL	
		0.00m - 0.25m
		0.25m - 0.50m
		0.50m - 1.000m
		1.00m - 2.00m
		> 2.00m

SERVICES (PUP) LEGEND

	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	
GAS	G(*)
WATER MAIN	W(*)

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

NOTE

1. REFER TO CIVIL SPECIFICATIONS ON DRAWING C4001 FOR SUBGRADE PREPARATION REQUIREMENTS.
2. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE DOUGLAS PARTNERS GEOTECHNICAL REPORT 93323.00.R 01 REV01 DATED 19TH FEB 2018.
3. DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING

LEVEL 1 COMPACTION

ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
(NOTE TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

REVISIONS

No.	REVISION DESCRIPTION	DRAWN	DATE
3	STORMWATER BASIN AND FIRE TRAIL UPDATED	MP	[illegible]
2	DRIVEWAY ADDED	MP	[illegible]
1	STORMWATER BASIN AND FIRE TRAIL UPDATED	MP	[illegible]
0	ISSUED FOR CONSTRUCTION	MP	02.08.24

PARKLAKE ADARE

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Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT: PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

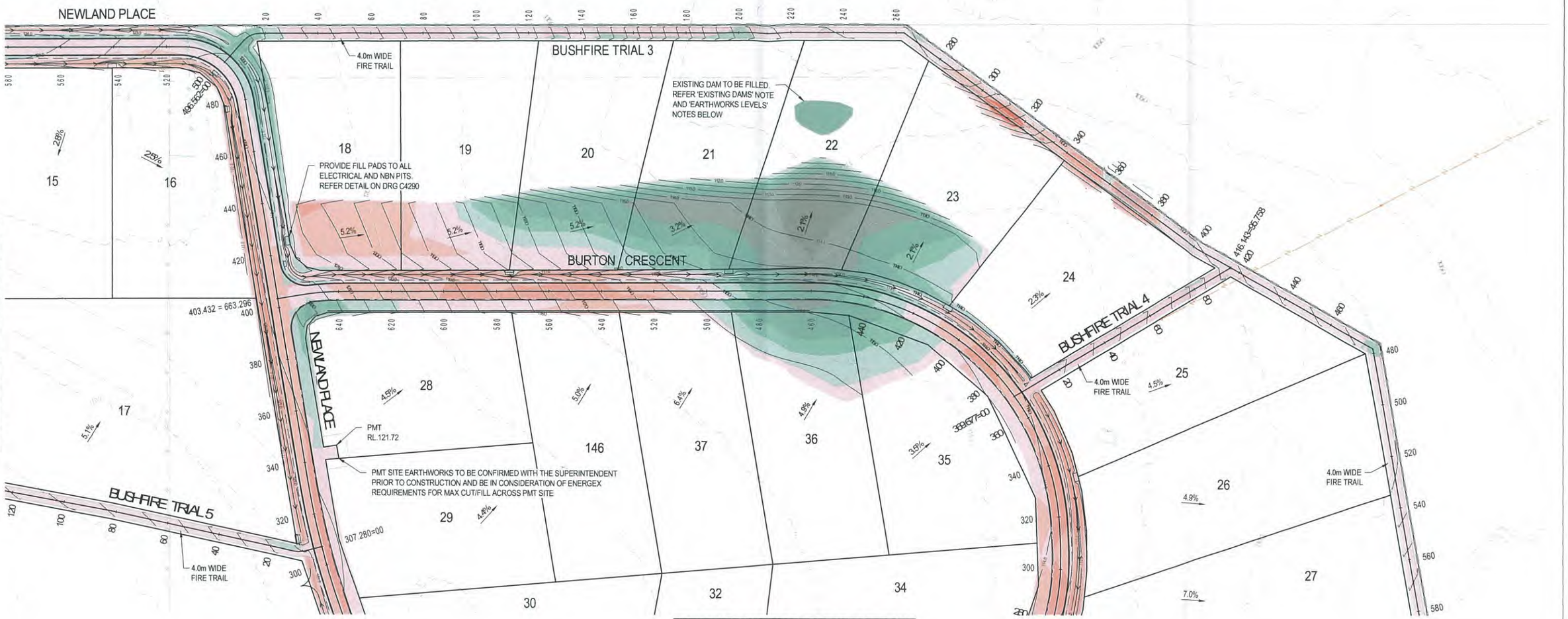
SCALE: 0 7.5 15 22.5 30 37.5 75m — SCALE 1:750

PROJECT TITLE: PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE: BULK EARTHWORKS PLAN SHEET 1

DRAWING STATUS: ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTCHECKED	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.		DRAWING No.	REVISION
BR242001		C4200	3



NOTE

1. REFER TO CIVIL SPECIFICATIONS ON DRAWING C4001 FOR SUBGRADE PREPARATION REQUIREMENTS.
2. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE DOUGLAS PARTNERS GEOTECHNICAL REPORT: 93323.00.R.01.REV01 DATED 19TH FEB 2018.
3. DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING

LEVEL 1 COMPACTION

ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE
ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE
(NOTE TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

CUT FILL

CUT	FILL	
		0.00m - 0.25m
		0.25m - 0.50m
		0.50m - 1.000m
		1.00m - 2.00m
		> 2.00m

SERVICES (PUP) LEGEND

	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	
GAS	G(*)
WATER MAIN	W(*)

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
MOUNTABLE KERB TYPE M4	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M6	CONTOUR (0.5m)
CONTOUR (1.0m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	STAGE BOUNDARY
TREE TPZ	

REVISIONS			
0	ISSUED FOR CONSTRUCTION	MP	02/08/24
No.	REVISION DESCRIPTION	DRAWN	DATE

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van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

SCALE
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
BULK EARTHWORKS PLAN
SHEET 2

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	RPEQ 19936
CK	MP	C. KIRK	
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	02/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4201	0	

EMERGENCY ACCESS

NEWLAND PLACE

FOR CONTINUATION REFER BELOW

FOR CONTINUATION REFER DWG No. C4201

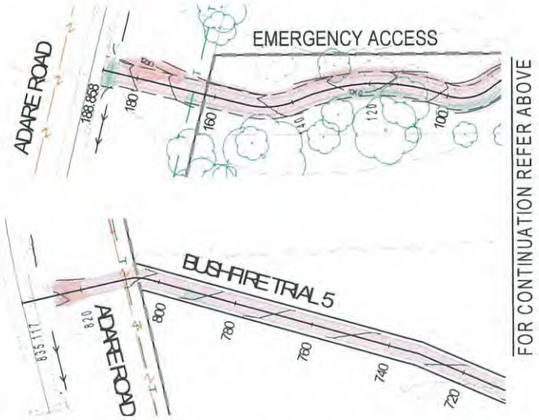
BUSHFIRE TRIAL 6

BUSHFIRE TRIAL 5

4.0m WIDE FIRE TRAIL

PROVIDE FILL PADS TO ALL ELECTRICAL AND NBN PITS. REFER DETAIL ON DRG C4290

1 2 3 4 5 6 7 8 9 10 11 12 13 14



NOTE

1. REFER TO CIVIL SPECIFICATIONS ON DRAWING C4001 FOR SUBGRADE PREPARATION REQUIREMENTS.
2. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE DOUGLAS PARTNERS GEOTECHNICAL REPORT: 93323.00.R.01.REV01 DATED 19TH FEB 2018.
3. DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING

LEVEL 1 COMPACTION

ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
(NOTE TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

CUT	FILL	
		0.00m - 0.25m
		0.25m - 0.50m
		0.50m - 1.000m
		1.00m - 2.00m
		> 2.00m

SERVICES (PUP) LEGEND

	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	
GAS	G(*)
WATER MAIN	W(*)

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
MOUNTABLE KERB TYPE M4	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M6	CONTOUR (0.5m)
CONTOUR (1.0m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	STAGE BOUNDARY
TREE TPZ	

REVISIONS			
0	ISSUED FOR CONSTRUCTION	MP	02/08/24
No	REVISION DESCRIPTION	DRAWN	DATE

PARKLAKE ADARE

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CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

SCALE
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
BULK EARTHWORKS PLAN
SHEET 3

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	RPEQ 19936 / RPI 3053220
CK	MP	C KIRK	
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	02/08/24	A1
JOB No	DRAWING No	REVISION	
BR242001	C4202	0	

TEST REPORTS

Material Test Report

SQS www.sqs.net.au
SOIL QUALITY SERVICES
AMB Geotech SQS Pty Ltd
ABN 36 631 788 620

SQS
Toowoomba Laboratory
15 Rocla Court Toowoomba QLD 4350
Phone: (07) 4633 4875
Email: Toowoomba@sqs.net.au

Accredited for compliance with ISO/IEC 17025 - Testing

NATA
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-1
Issue Number: 1
Date Issued: 23/09/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17124
Date Sampled: 16/09/2024
Dates Tested: 16/09/2024 - 20/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)
Location: Parklake Adare Subdivision Stage 4 & 5 - Newlands Place Road Easement, Lot 10 & Dam General Fill
Material: General Fill
Material Source: Existing / Cut to Fill

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	T-17124A	T-17124B	T-17124C
Date Tested	16/09/2024	16/09/2024	16/09/2024
Time Tested	08:20	08:30	08:50
Test Request #/Location	Newlands Place Road Easement	Newlands Place Lot 10	Dam
Easting	429662.809	429833.530	430354.394
Northing	6955101.806	6955079.345	6954979.723
Elevation (m)	119.650	120.652	108.723
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) %	**	**	**
Oversize (dry basis) %	**	**	**
Curing Hours	3.5	3.3	3.1
Method used to Determine Plasticity	Visual / Tactile	Visual / Tactile	Visual / Tactile
Field Wet Density (FWD) t/m^3	2.12	2.05	2.13
Field Moisture Content %	12.0	10.8	12.3
Field Dry Density t/m^3	1.89	1.85	1.90
Maximum Dry Density t/m^3	1.91	1.87	1.91
Adjusted Maximum Dry Density t/m^3	**	**	**
Optimum Moisture Content %	11.5	10.5	12.0
Adjusted Optimum Moisture Content %	**	**	**
Moisture Variation %	-0.5	0.0	-0.5
Moisture Ratio %	104.0	102.0	102.5
Density Ratio %	**99.0**	**98.5**	**99.5**
Compaction Method	**Standard**	**Standard**	**Standard**

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report

SQS www.sqs.net.au
SOIL QUALITY SERVICES
AMB Geotech SQS Pty Ltd
ABN 36 631 788 620

SQS
Toowoomba Laboratory
15 Rocla Court Toowoomba QLD 4350
Phone: (07) 4633 4875
Email: Toowoomba@sqs.net.au

Accredited for compliance with ISO/IEC 17025 - Testing

NATA
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-2
Issue Number: 1
Date Issued: 23/09/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17136
Date Sampled: 17/09/2024
Dates Tested: 17/09/2024 - 21/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: COMPACTION STD: 98% of Standard Compaction (as advised by client)
Location: Parklake Adare Subdivision Stage 4 & 5 - Newlands Place & Dam General Fill
Material: Silty Sandy Clay
Material Source: Existing / Cut to Fill

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1				
Sample Number	T-17136A	T-17136B	T-17136C	T-17136D
Date Tested	17/09/2024	17/09/2024	17/09/2024	17/09/2024
Time Tested	08:00	08:10	08:20	08:30
Test Request #/Location	Newlands Place	Newlands Place	Newlands Place	Dam
Easting	429605.750	429712.460	429896.350	430320.860
Northing	6955109.610	6955094.130	6955067.390	6954944.360
Elevation (m)	120.620	119.610	121.030	112.640
Layer / Reduced Level	General Fill	General Fill	General Fill	General Fill
Thickness of Layer (mm)	200	200	200	200
Soil Description	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay	Silty Sandy Clay
Test Depth (mm)	175	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**	**
Oversize (dry basis) %	**	**	**	**
Curing Hours	20.5	19.9	19.3	2.3
Method used to Determine Plasticity	Visual / Tactile	Visual / Tactile	Visual / Tactile	Visual / Tactile
Field Wet Density (FWD) t/m^3	2.05	2.14	2.06	2.03
Field Moisture Content %	12.9	13.0	10.1	13.8
Field Dry Density t/m^3	1.81	1.90	1.87	1.78
Maximum Dry Density t/m^3	1.84	1.90	1.88	1.82
Adjusted Maximum Dry Density t/m^3	**	**	**	**
Optimum Moisture Content %	12.5	13.0	11.0	12.5
Adjusted Optimum Moisture Content %	**	**	**	**
Moisture Variation %	-0.5	0.0	1.0	-1.0
Moisture Ratio %	102.5	101.5	91.5	109.5
Density Ratio %	**98.5**	**100.0**	**99.5**	**98.0**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report

SQS www.sqs.net.au
SOIL QUALITY SERVICES
AMB Geotech SQS Pty Ltd
ABN 36 631 788 620

SQS
Toowoomba Laboratory
15 Rocla Court Toowoomba QLD 4350
Phone: (07) 4633 4875
Email: Toowoomba@sqs.net.au

Report Number: T-24-1076-3
Issue Number: 1
Date Issued: 23/09/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17156
Date Sampled: 18/09/2024
Dates Tested: 18/09/2024 - 19/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)
Location: Parklake Adare Subdivision - Newlands Place Road, Dam, Lot 22 General Fill
Material: General Fill
Material Source: Existing / Cut to Fill

Accredited for compliance with ISO/IEC 17025 - Testing

NATA
WORLD RECOGNISED ACCREDITATION

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				
Sample Number	T-17156A	T-17156B	T-17156C	T-17156D
Date Tested	18/09/2024	18/09/2024	18/09/2024	18/09/2024
Time Tested	08:15	08:25	08:35	08:45
Test Request #/Location	Newland's Place Road	Newland's Place Road	Dam	Lot 22
Easting	4299570.370	429952.200	430356.460	430329.200
Northing	6955113.180	6955060.200	6954982.210	6954984.330
Elevation (m)	121.140	122.440	108.530	112.200
Layer / Reduced Level	General Fill	General Fill	General Fill	General Fill
Thickness of Layer (mm)	200	200	200	200
Soil Description	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay	Sandy Gravelly Clay
Test Depth (mm)	175	175	175	175
Fraction Tested (mm)	19.0	19.0	19.0	19.0
Oversize (wet basis) %	**	**	**	**
Oversize (dry basis) %	**	**	**	**
Curing Hours	2.1	5.0	4.3	6.6
Method used to Determine Plasticity	Visual / Tactile	Visual / Tactile	Visual / Tactile	Visual / Tactile
Field Wet Density (FWD) t/m^3	2.10	2.10	2.12	2.16
Field Moisture Content %	11.0	9.7	10.0	11.7
Field Dry Density t/m^3	1.90	1.91	1.93	1.93
Maximum Dry Density t/m^3	1.92	1.93	1.96	1.95
Adjusted Maximum Dry Density t/m^3	**	**	**	**
Optimum Moisture Content %	10.5	9.5	9.0	11.5
Adjusted Optimum Moisture Content %	**	**	**	**
Moisture Variation %	-0.5	0.0	-1.0	0.0
Moisture Ratio %	104.5	100.0	114.0	101.5
Density Ratio %	**98.5**	**99.0**	**98.0**	**99.0**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report

SQS www.sqs.net.au
SOIL QUALITY SERVICES
AMB Geotech SQS Pty Ltd
ABN 36 631 788 620

SQS
Toowoomba Laboratory
15 Rocla Court Toowoomba QLD 4350
Phone: (07) 4633 4875
Email: Toowoomba@sqs.net.au

Accredited for compliance with ISO/IEC 17025 - Testing

NATA
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-4
Issue Number: 1
Date Issued: 24/09/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17203
Date Sampled: 19/09/2024
Dates Tested: 19/09/2024 - 21/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)
Location: Parklake Adare Subdivision - Lot 20, 22, Newlands Place Road - General Fill
Material: General Fill
Material Source: Existing / Cut to Fill

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	T-17203A	T-17203B	T-17203C
Date Tested	19/09/2024	19/09/2024	19/09/2024
Time Tested	11:10	11:20	11:30
Test Request #/Location	Lot 20	Lot 22	Newlands Place Road
Easting	430252.110	430343.500	429567.070
Northing	6954957.700	6954933.890	6955119.390
Elevation (m)	115.420	112.120	121.390
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) %	**	**	**
Oversize (dry basis) %	**	**	**
Curing Hours	22.6	21.3	24.2
Method used to Determine Plasticity	Visual / Tactile	Visual / Tactile	Visual / Tactile
Field Wet Density (FWD) t/m^3	2.22	2.16	2.16
Field Moisture Content %	13.1	13.2	13.1
Field Dry Density t/m^3	1.97	1.90	1.91
Maximum Dry Density t/m^3	1.93	1.87	1.92
Adjusted Maximum Dry Density t/m^3	**	**	**
Optimum Moisture Content %	12.5	12.5	13.5
Adjusted Optimum Moisture Content %	**	**	**
Moisture Variation %	-0.5	-0.5	0.0
Moisture Ratio %	103.0	105.0	99.0
Density Ratio %	**102.0**	**101.5**	**99.5**
Compaction Method	**Standard**	**Standard**	**Standard**

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report

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AMB Geotech SQS Pty Ltd
ABN 36 631 788 620

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NATA
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-5
Issue Number: 1
Date Issued: 04/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17301
Date Sampled: 25/09/2024
Dates Tested: 25/09/2024 - 27/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)
Location: Parklake Adare Stages 4 & 5 - Lot 146, 37, 36 - General Fill
Material: General Fill
Material Source: Existing / Cut to Fill

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	T-17301A	T-17301B	T-17301C
Date Tested	25/09/2024	25/09/2024	25/09/2024
Time Tested	08:00	08:10	08:20
Test Request #/Location	Lot 146	Lot 37	Lot 36
Easting	430250.980	430311.480	430367.290
Northing	6954947.800	6954933.500	6954925.440
Elevation (m)	116.090	114.010	113.060
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) %	**	**	**
Oversize (dry basis) %	**	**	**
Curing Hours	49.5	25.0	68.1
Method used to Determine Plasticity	Visual / Tactile	Visual / Tactile	Visual / Tactile
Field Wet Density (FWD) t/m^3	2.27	2.17	2.14
Field Moisture Content %	11.4	10.5	10.4
Field Dry Density t/m^3	2.04	1.97	1.94
Maximum Dry Density t/m^3	1.94	1.91	1.90
Adjusted Maximum Dry Density t/m^3	**	**	**
Optimum Moisture Content %	11.5	12.0	12.0
Adjusted Optimum Moisture Content %	**	**	**
Moisture Variation %	0.0	1.5	1.5
Moisture Ratio %	99.5	88.5	87.0
Density Ratio %	**105.0**	**103.0**	**102.0**
Compaction Method	**Standard**	**Standard**	**Standard**

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report

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Email: Toowoomba@sqs.net.au

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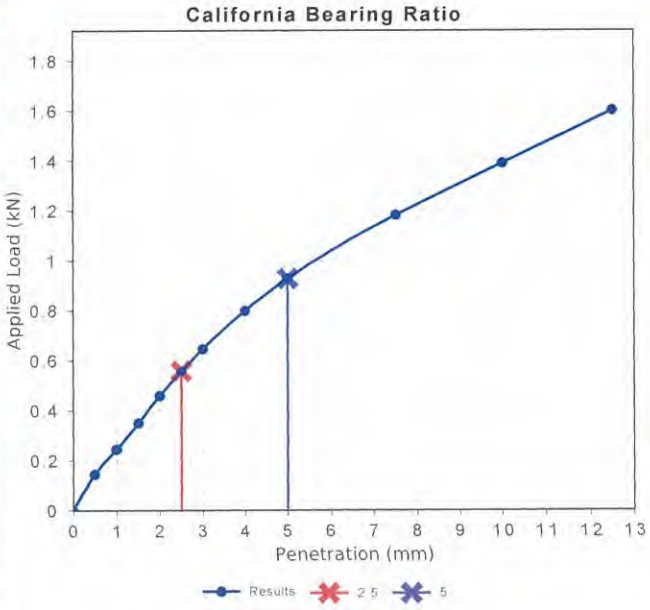
NATA
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-7
Issue Number: 1
Date Issued: 09/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17337
Sample Number: T-17337A
Date Sampled: 26/09/2024
Dates Tested: 27/09/2024 - 07/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by Client
Sample Location: **Newlands Place Road Ch: CH 950m, Off: 2.0m LHS from CL, Depth: Subgrade**
Material: Sandy Silty Clay
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**4.5**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.91		
Optimum Moisture Content (%)	11.0		
Laboratory Density Ratio (%)	99.5		
Laboratory Moisture Ratio (%)	104.5		
Dry Density after Soaking (t/m^3)	1.86		
Field Moisture Content (%)			
Moisture Content at Placement (%)	11.3		
Moisture Content Top 30mm (%)	16.9		
Moisture Content Rest of Sample (%)	13.5		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	55.4		
Swell (%)	2.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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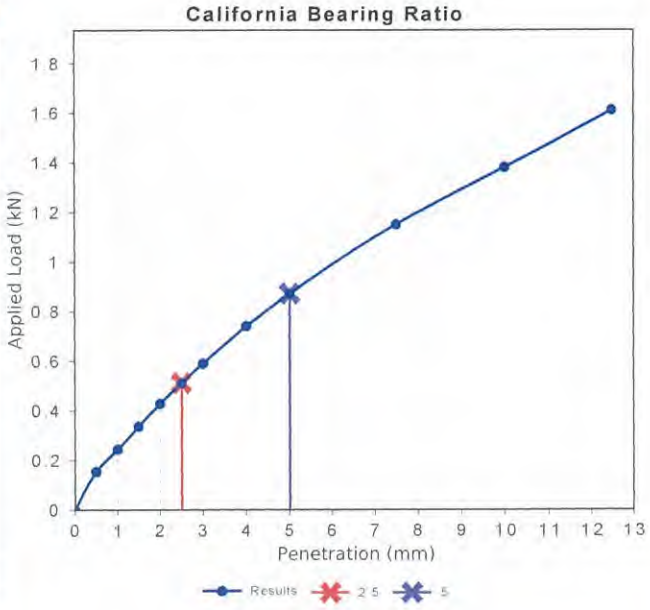
Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number:	**T-24-1076-7**
Issue Number:	1
Date Issued:	09/10/2024
Client:	Newlands Civil Construction Pty Ltd 6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact:	Simon Bowles
Project Number:	T-24-1076
Project Name:	Parklake Adare Subdivision Stage 4 & 5
Work Request:	17337
Sample Number:	T-17337B
Date Sampled:	26/09/2024
Dates Tested:	27/09/2024 - 07/10/2024
Sampling Method:	AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method:	AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection:	Selected by Client
Sample Location:	**Newlands Place Road Ch: CH 800m, Off: 2.5m RHS from CL, Depth: Subgrade**
Material:	Sandy Silty Clay
Material Source:	Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**4.5**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	2.00		
Optimum Moisture Content (%)	11.0		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	98.5		
Dry Density after Soaking (t/m^3)	1.94		
Field Moisture Content (%)			
Moisture Content at Placement (%)	10.8		
Moisture Content Top 30mm (%)	14.8		
Moisture Content Rest of Sample (%)	12.5		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	51.3		
Swell (%)	3.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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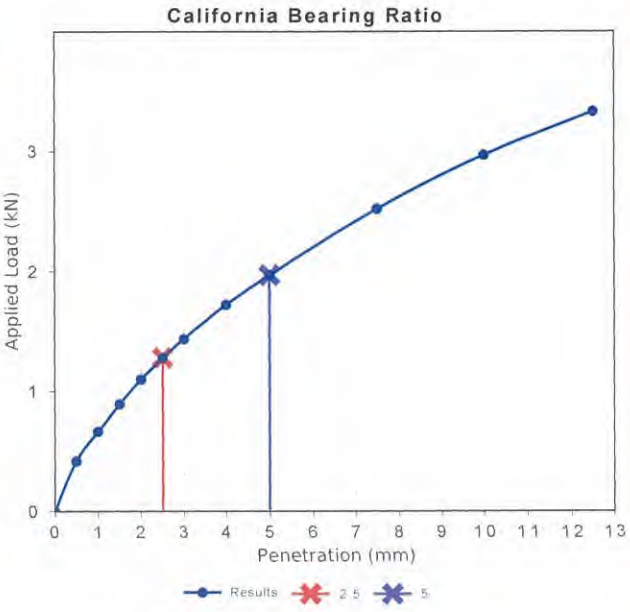
Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-7
Issue Number: 1
Date Issued: 09/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17337
Sample Number: T-17337C
Date Sampled: 26/09/2024
Dates Tested: 27/09/2024 - 07/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by Client
Sample Location: **Newlands Place Road Ch: CH 650m, Off: 2.5m LHS from CL, Depth: Subgrade**
Material: Sandy Silty Clay
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**10**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.95		
Optimum Moisture Content (%)	10.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	95.0		
Dry Density after Soaking (t/m^3)	1.96		
Field Moisture Content (%)			
Moisture Content at Placement (%)	10.2		
Moisture Content Top 30mm (%)	12.2		
Moisture Content Rest of Sample (%)	11.7		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	56.5		
Swell (%)	0.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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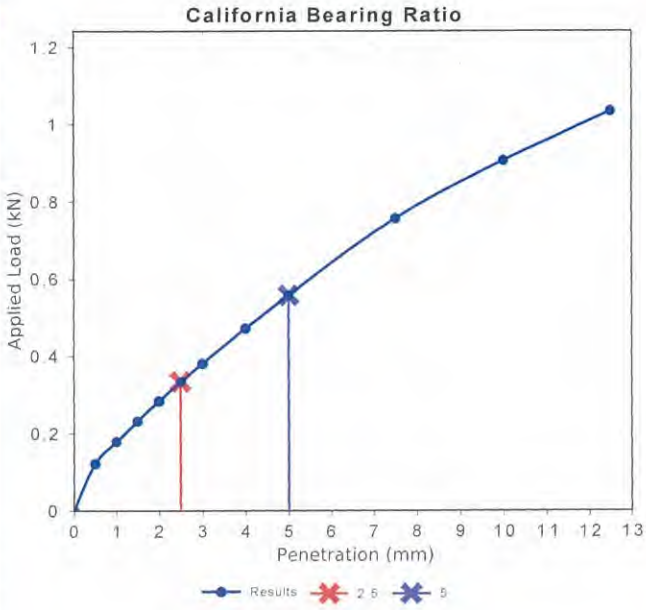
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-7
Issue Number: 1
Date Issued: 09/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17337
Sample Number: T-17337D
Date Sampled: 26/09/2024
Dates Tested: 27/09/2024 - 07/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by Client
Sample Location: **Newlands Place Road Ch: CH 500m, Off: 2.0m RHS from CL, Depth: Subgrade**
Material: Sandy Silty Clay
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**3.0**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.83		
Optimum Moisture Content (%)	13.5		
Laboratory Density Ratio (%)	99.5		
Laboratory Moisture Ratio (%)	103.5		
Dry Density after Soaking (t/m^3)	1.82		
Field Moisture Content (%)			
Moisture Content at Placement (%)	14.0		
Moisture Content Top 30mm (%)	14.0		
Moisture Content Rest of Sample (%)	13.9		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	54.4		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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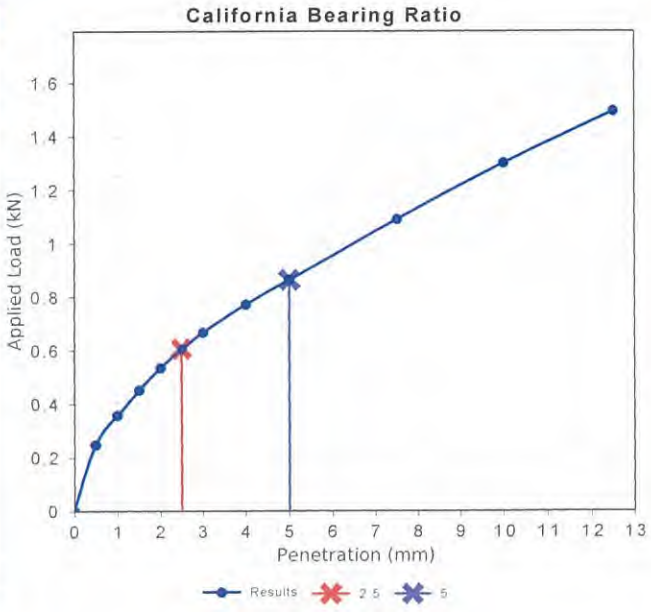
Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-7
Issue Number: 1
Date Issued: 09/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17337
Sample Number: T-17337E
Date Sampled: 26/09/2024
Dates Tested: 27/09/2024 - 07/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by Client
Sample Location: **Newlands Place Road Ch: CH 350m, Off: 2.0m LHS from CL, Depth: Subgrade**
Material: Sandy Silty Clay
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	2.5 mm		
CBR %	**4.5**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.93		
Optimum Moisture Content (%)	12.5		
Laboratory Density Ratio (%)	99.5		
Laboratory Moisture Ratio (%)	99.5		
Dry Density after Soaking (t/m^3)	1.89		
Field Moisture Content (%)			
Moisture Content at Placement (%)	12.2		
Moisture Content Top 30mm (%)	19.7		
Moisture Content Rest of Sample (%)	16.1		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	46.8		
Swell (%)	1.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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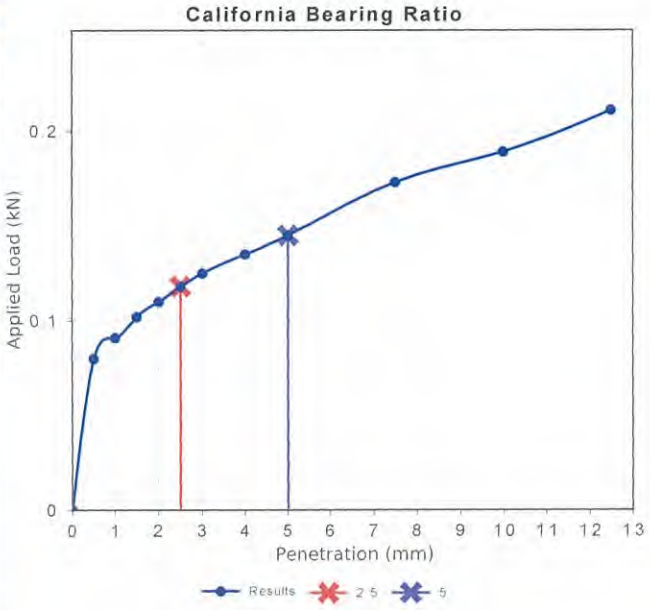
Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-7
Issue Number: 1
Date Issued: 09/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17337
Sample Number: T-17337F
Date Sampled: 26/09/2024
Dates Tested: 27/09/2024 - 07/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by Client
Sample Location: **Newlands Place Road Ch: CH 200m, Off: 2.Rm LHS from CL, Depth: Subgrade**
Material: Sandy Silty Clay
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	2.5 mm		
CBR %	**1.0**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.89		
Optimum Moisture Content (%)	13.5		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	99.5		
Dry Density after Soaking (t/m^3)	1.89		
Field Moisture Content (%)			
Moisture Content at Placement (%)	13.5		
Moisture Content Top 30mm (%)	14.5		
Moisture Content Rest of Sample (%)	14.5		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	44.9		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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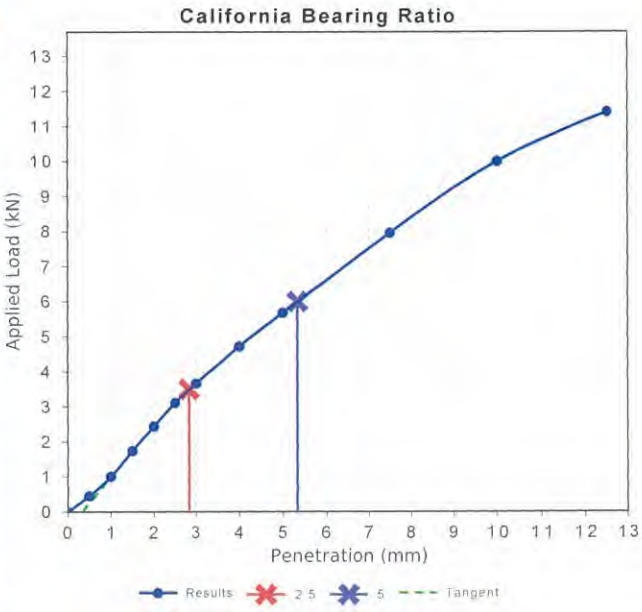
Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number:	**T-24-1076-7**
Issue Number:	1
Date Issued:	09/10/2024
Client:	Newlands Civil Construction Pty Ltd 6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact:	Simon Bowles
Project Number:	T-24-1076
Project Name:	Parklake Adare Subdivision Stage 4 & 5
Work Request:	17337
Sample Number:	T-17337G
Date Sampled:	26/09/2024
Dates Tested:	27/09/2024 - 07/10/2024
Sampling Method:	AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method:	AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection:	Selected by Client
Sample Location:	**Newlands Place Road Ch: CH 60m, Off: 2.0m LHS from CL, Depth: Subgrade**
Material:	Sandy Silty Clay
Material Source:	Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**30**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	2.00		
Optimum Moisture Content (%)	9.5		
Laboratory Density Ratio (%)	99.5		
Laboratory Moisture Ratio (%)	105.0		
Dry Density after Soaking (t/m^3)	1.99		
Field Moisture Content (%)			
Moisture Content at Placement (%)	9.9		
Moisture Content Top 30mm (%)	10.4		
Moisture Content Rest of Sample (%)	9.8		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	57.2		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



Material Test Report

Report Number: T-24-1076-6
Issue Number: 1
Date Issued: 09/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17457
Date Sampled: 03/10/2024
Dates Tested: 03/10/2024 - 08/10/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)
Location: Parklake Adare Stages 4 & 5 - Lots 23, 22, 21 General Fill
Material: Sandy Silty Clay
Material Source: Existing / Cut to Fill

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NATA WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Michael Cameron
Senior Technician
NATA Accredited Laboratory Number: 2911

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	T-17457A	T-17457B	T-17457C
Date Tested	03/10/2024	03/10/2024	03/10/2024
Time Tested	11:10	11:20	11:30
Test Request #/Location	Lot's 23	Lot's 22	Lot's 21
Easting	430364.460	430338.060	430293.280
Northing	6954922.060	6954927.630	6954935.330
Elevation (m)	113.310	113.330	114.660
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) %	**	**	**
Oversize (dry basis) %	**	**	**
Curing Hours	95.7	95.7	95.9
Method used to Determine Plasticity	Visual / Tactile	Visual / Tactile	Visual / Tactile
Field Wet Density (FWD) t/m^3	2.13	2.08	2.15
Field Moisture Content %	14.8	15.0	12.3
Field Dry Density t/m^3	1.86	1.81	1.91
Maximum Dry Density t/m^3	1.87	1.83	1.93
Adjusted Maximum Dry Density t/m^3	**	**	**
Optimum Moisture Content %	16.5	14.5	14.0
Adjusted Optimum Moisture Content %	**	**	**
Moisture Variation %	1.5	-0.5	1.5
Moisture Ratio %	90.0	102.0	89.0
Density Ratio %	**99.5**	**99.0**	**99.0**
Compaction Method	**Standard**	**Standard**	**Standard**

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report

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AMB Geotech SQS Pty Ltd
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Toowoomba Laboratory
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Phone: (07) 4633 4875
Email: Toowoomba@sqs.net.au

Report Number:	**T-24-1076-8**
Issue Number:	1
Date Issued:	14/10/2024
Client:	Newlands Civil Construction Pty Ltd 6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact:	Simon Bowles
Project Number:	T-24-1076
Project Name:	Parklake Adare Subdivision Stage 4 & 5
Work Request:	17466
Sample Number:	T-17466A
Date Sampled:	03/10/2024
Dates Tested:	04/10/2024 - 12/10/2024
Sampling Method:	AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method:	AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection:	Selected by Client
Sample Location:	**Burton Crescent Ch: CH 600m, Depth: Subgrade**
Material:	Silty Sand
Material Source:	Onsite Existing / Insitu

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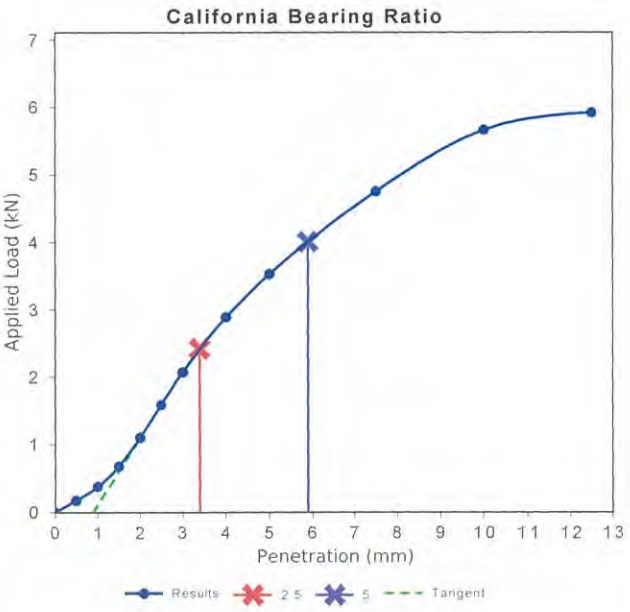
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**20**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	2.00		
Optimum Moisture Content (%)	9.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	95.5		
Dry Density after Soaking (t/m^3)	2.00		
Field Moisture Content (%)			
Moisture Content at Placement (%)	9.2		
Moisture Content Top 30mm (%)	10.0		
Moisture Content Rest of Sample (%)	9.9		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	100.8		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



Material Test Report

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Email: Toowoomba@sqs.net.au

Report Number:	**T-24-1076-8**
Issue Number:	1
Date Issued:	14/10/2024
Client:	Newlands Civil Construction Pty Ltd
	6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact:	Simon Bowles
Project Number:	T-24-1076
Project Name:	Parklake Adare Subdivision Stage 4 & 5
Work Request:	17466
Sample Number:	T-17466B
Date Sampled:	03/10/2024
Dates Tested:	04/10/2024 - 12/10/2024
Sampling Method:	AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method:	AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection:	Selected by Client
Sample Location:	**Burton Crescent Ch: CH 450m, Depth: Subgrade**
Material:	Silty Sandy Clay
Material Source:	Onsite Existing / Insitu

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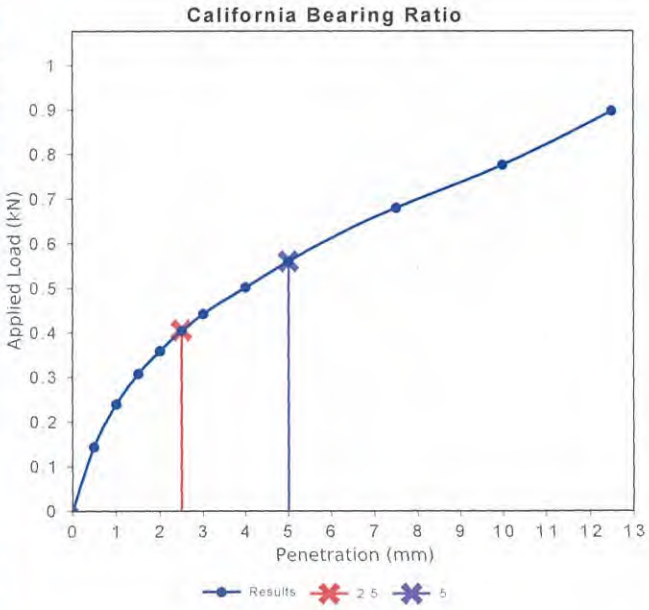
California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	2.5 mm		
CBR %	**3.0**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.79		
Optimum Moisture Content (%)	15.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	97.5		
Dry Density after Soaking (t/m^3)	1.77		
Field Moisture Content (%)			
Moisture Content at Placement (%)	15.1		
Moisture Content Top 30mm (%)	19.1		
Moisture Content Rest of Sample (%)	17.1		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	98.2		
Swell (%)	1.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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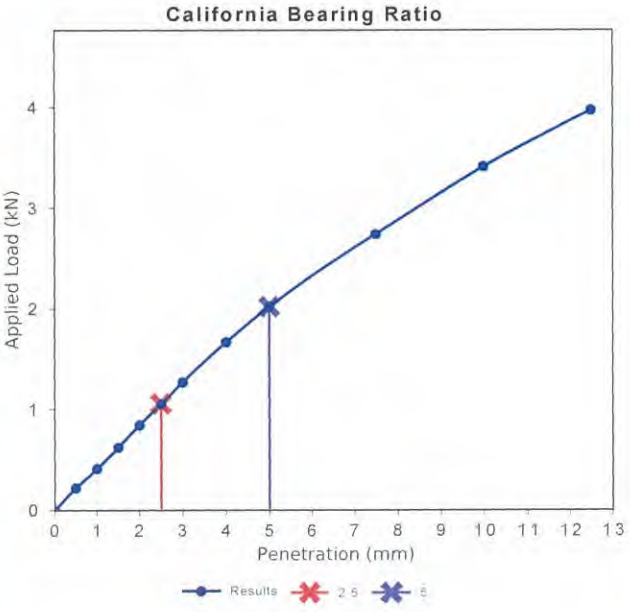
Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-8
Issue Number: 1
Date Issued: 14/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17466
Sample Number: T-17466C
Date Sampled: 03/10/2024
Dates Tested: 04/10/2024 - 12/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by Client
Sample Location: **Burton Crescent Ch: CH 300m, Depth: Subgrade**
Material: Silty Sandy Clay
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**10**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.81		
Optimum Moisture Content (%)	15.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	97.0		
Dry Density after Soaking (t/m^3)	1.82		
Field Moisture Content (%)			
Moisture Content at Placement (%)	14.9		
Moisture Content Top 30mm (%)	15.8		
Moisture Content Rest of Sample (%)	16.3		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	101.0		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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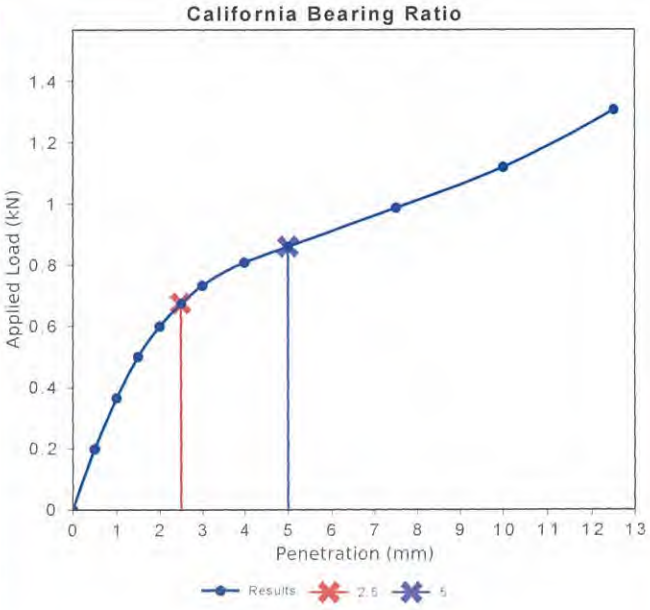
Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-8
Issue Number: 1
Date Issued: 14/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17466
Sample Number: T-17466D
Date Sampled: 03/10/2024
Dates Tested: 04/10/2024 - 12/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by Client
Sample Location: **Burton Crescent Ch: CH 200m, Depth: Subgrade**
Material: Silty Sandy Clay
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	2.5 mm		
CBR %	**5**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.77		
Optimum Moisture Content (%)	16.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	97.5		
Dry Density after Soaking (t/m^3)	1.76		
Field Moisture Content (%)			
Moisture Content at Placement (%)	15.9		
Moisture Content Top 30mm (%)	20.1		
Moisture Content Rest of Sample (%)	17.6		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	100.8		
Swell (%)	0.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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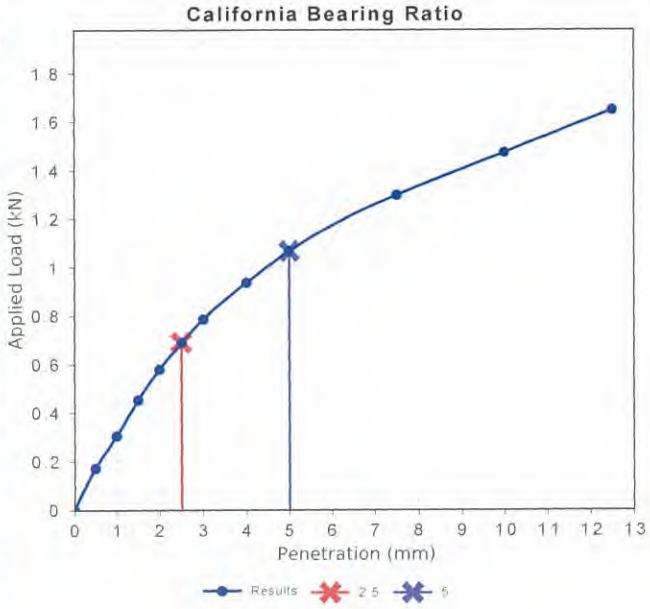
Report Number: T-24-1076-8
Issue Number: 1
Date Issued: 14/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17466
Sample Number: T-17466E
Date Sampled: 03/10/2024
Dates Tested: 04/10/2024 - 12/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection: Selected by Client
Sample Location: **Burton Crescent Ch: CH 50m, Depth: Subgrade**
Material: Silty Sandy Clay
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**5**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.89		
Optimum Moisture Content (%)	12.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	97.5		
Dry Density after Soaking (t/m^3)	1.88		
Field Moisture Content (%)			
Moisture Content at Placement (%)	12.4		
Moisture Content Top 30mm (%)	16.4		
Moisture Content Rest of Sample (%)	15.3		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	100.6		
Swell (%)	0.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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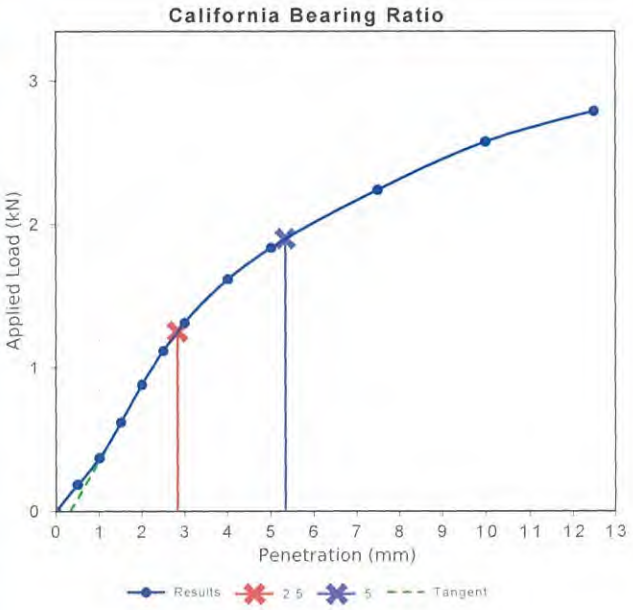
Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number:	T-24-1076-8
Issue Number:	1
Date Issued:	14/10/2024
Client:	Newlands Civil Construction Pty Ltd 6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact:	Simon Bowles
Project Number:	T-24-1076
Project Name:	Parklake Adare Subdivision Stage 4 & 5
Work Request:	17466
Sample Number:	T-17466F
Date Sampled:	03/10/2024
Dates Tested:	04/10/2024 - 12/10/2024
Sampling Method:	AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method:	AS 1289.1.1 - Sampling and Preparation of Soils
Site Selection:	Selected by Client
Sample Location:	**Newland Place Ch: CH 50m, Depth: Subgrade**
Material:	Silty Sandy Clay
Material Source:	Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**10**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.93		
Optimum Moisture Content (%)	11.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	96.0		
Dry Density after Soaking (t/m^3)	1.94		
Field Moisture Content (%)			
Moisture Content at Placement (%)	11.2		
Moisture Content Top 30mm (%)	13.8		
Moisture Content Rest of Sample (%)	13.3		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	99.3		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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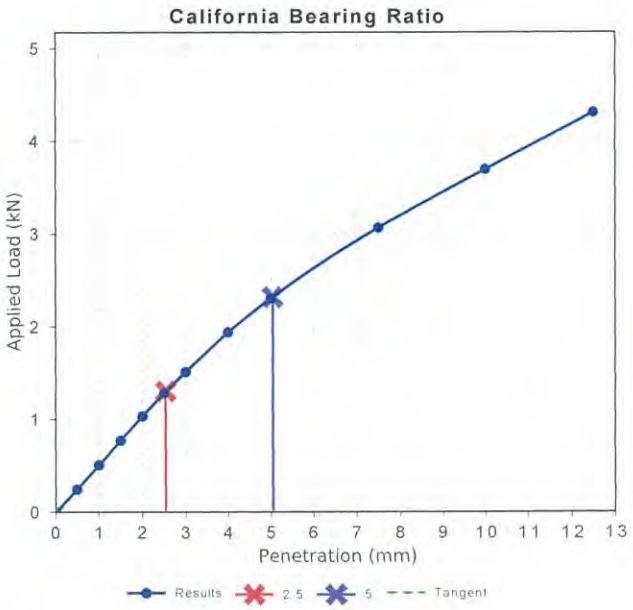
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-10
Issue Number: 1
Date Issued: 21/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17568
Sample Number: T-17568A
Date Sampled: 14/10/2024
Dates Tested: 14/10/2024 - 19/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: **Newland Place Ch: CH 1050m, Depth: Subgrade**
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**12**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.83		
Optimum Moisture Content (%)	13.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	102.0		
Dry Density after Soaking (t/m^3)	1.81		
Field Moisture Content (%)			
Moisture Content at Placement (%)	13.5		
Moisture Content Top 30mm (%)	14.9		
Moisture Content Rest of Sample (%)	14.4		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	23.2		
Swell (%)	0.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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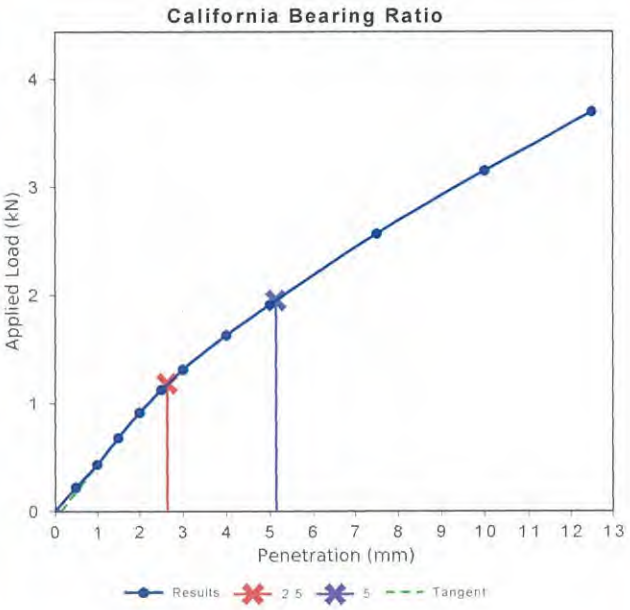
Report Number: T-24-1076-10
Issue Number: 1
Date Issued: 21/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17568
Sample Number: T-17568B
Date Sampled: 14/10/2024
Dates Tested: 14/10/2024 - 19/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: **Newland Place Ch: CH 875m, Depth: Subgrade**
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**10**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.95		
Optimum Moisture Content (%)	10.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	95.5		
Dry Density after Soaking (t/m^3)	1.95		
Field Moisture Content (%)			
Moisture Content at Placement (%)	10.2		
Moisture Content Top 30mm (%)	12.7		
Moisture Content Rest of Sample (%)	11.3		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	25.4		
Swell (%)	1.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



Material Test Report

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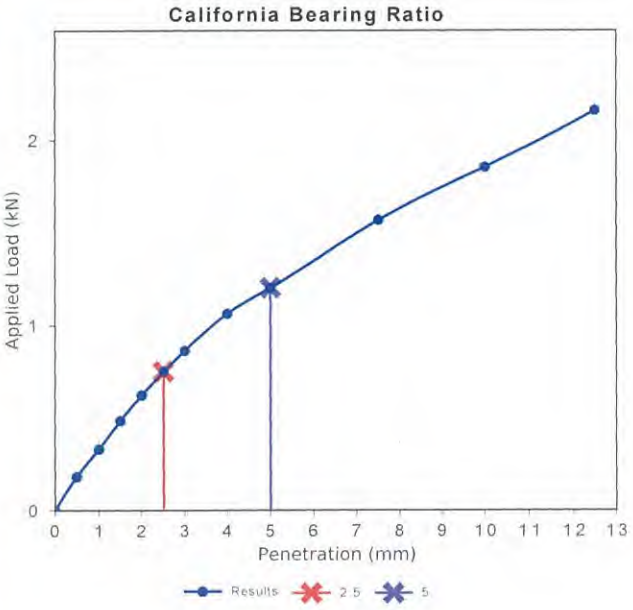
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-10
Issue Number: 1
Date Issued: 21/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17568
Sample Number: T-17568C
Date Sampled: 14/10/2024
Dates Tested: 14/10/2024 - 19/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: **Newland Place Ch: CH 725m, Depth: Subgrade**
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**6**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.96		
Optimum Moisture Content (%)	10.0		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	96.5		
Dry Density after Soaking (t/m^3)	1.95		
Field Moisture Content (%)			
Moisture Content at Placement (%)	9.7		
Moisture Content Top 30mm (%)	13.0		
Moisture Content Rest of Sample (%)	11.6		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	25.7		
Swell (%)	0.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



Material Test Report

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AMB Geotech SQS Pty Ltd
ABN 36 631 788 620

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Toowoomba Laboratory
15 Rocla Court Toowoomba QLD 4350
Phone: (07) 4633 4875
Email: Toowoomba@sqs.net.au

Report Number: T-24-1076-10
Issue Number: 1
Date Issued: 21/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17568
Sample Number: T-17568D
Date Sampled: 14/10/2024
Dates Tested: 14/10/2024 - 19/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: **Newland Place Ch: CH 575m, Depth: Subgrade**
Material Source: Onsite Existing / Insitu

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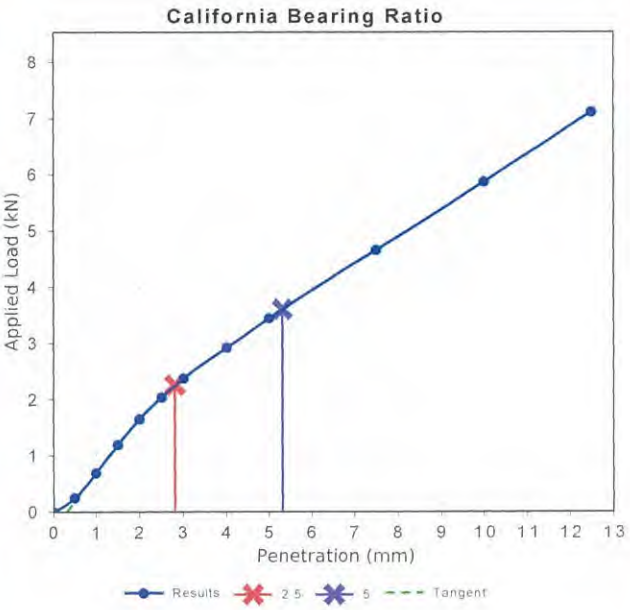
Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**18**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	2.01		
Optimum Moisture Content (%)	10.0		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	95.5		
Dry Density after Soaking (t/m^3)	2.01		
Field Moisture Content (%)			
Moisture Content at Placement (%)	9.4		
Moisture Content Top 30mm (%)	9.8		
Moisture Content Rest of Sample (%)	9.9		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	18.9		
Swell (%)	0.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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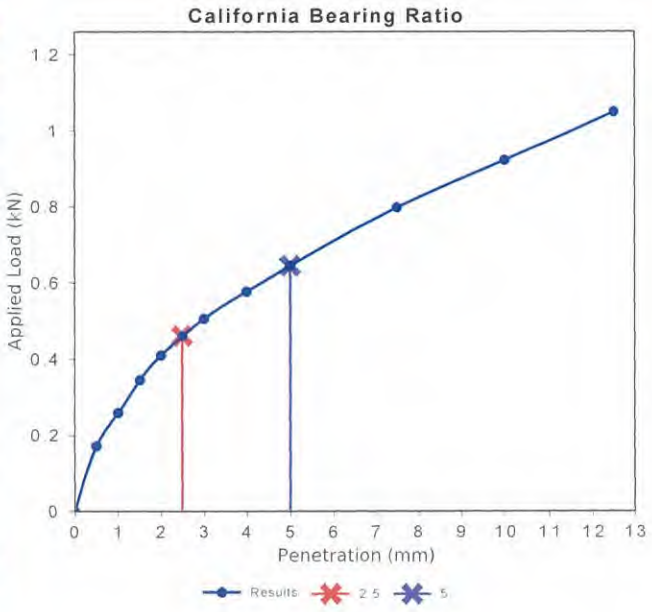
Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-10
Issue Number: 1
Date Issued: 21/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17568
Sample Number: T-17568E
Date Sampled: 14/10/2024
Dates Tested: 14/10/2024 - 19/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: **Newland Place Ch: CH 405m, Depth: Subgrade**
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	2.5 mm		
CBR %	**3.5**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.75		
Optimum Moisture Content (%)	16.5		
Laboratory Density Ratio (%)	99.5		
Laboratory Moisture Ratio (%)	103.0		
Dry Density after Soaking (t/m^3)	1.71		
Field Moisture Content (%)			
Moisture Content at Placement (%)	17.1		
Moisture Content Top 30mm (%)	22.6		
Moisture Content Rest of Sample (%)	18.9		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	20.8		
Swell (%)	2.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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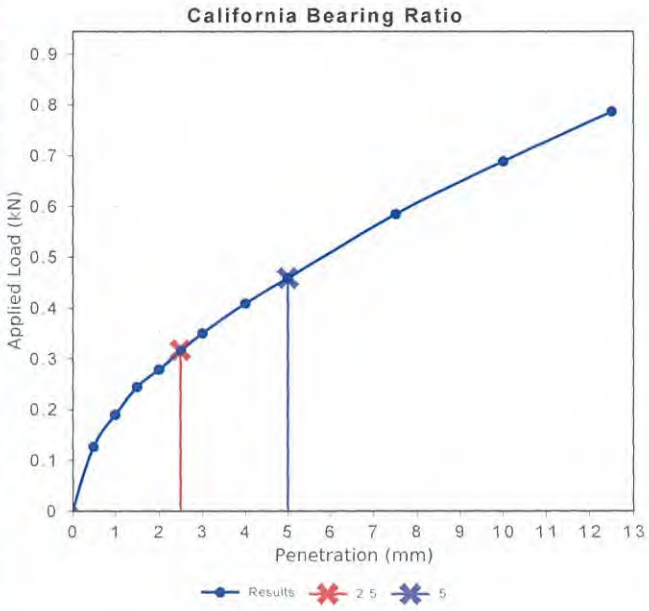
Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-10
Issue Number: 1
Date Issued: 21/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17568
Sample Number: T-17568F
Date Sampled: 14/10/2024
Dates Tested: 14/10/2024 - 19/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: **Burton Crescent Ch: CH 525m, Depth: Subgrade**
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	2.5 mm		
CBR %	**2.5**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.86		
Optimum Moisture Content (%)	13.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	97.5		
Dry Density after Soaking (t/m^3)	1.81		
Field Moisture Content (%)			
Moisture Content at Placement (%)	13.2		
Moisture Content Top 30mm (%)	19.4		
Moisture Content Rest of Sample (%)	15.3		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	20.2		
Swell (%)	3.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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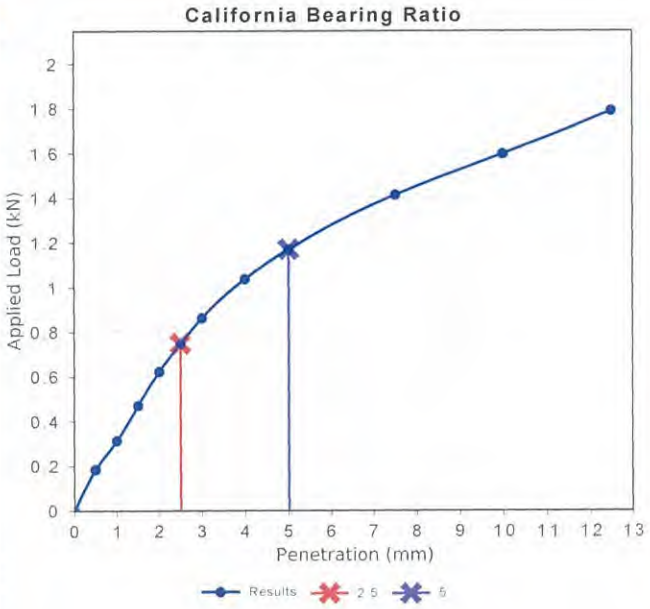
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-10
Issue Number: 1
Date Issued: 21/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17568
Sample Number: T-17568G
Date Sampled: 14/10/2024
Dates Tested: 14/10/2024 - 19/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: **Burton Crescent Ch: CH 375m, Depth: Subgrade**
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**6**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.84		
Optimum Moisture Content (%)	13.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	96.5		
Dry Density after Soaking (t/m^3)	1.82		
Field Moisture Content (%)			
Moisture Content at Placement (%)	13.2		
Moisture Content Top 30mm (%)	17.0		
Moisture Content Rest of Sample (%)	15.6		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	20.0		
Swell (%)	2.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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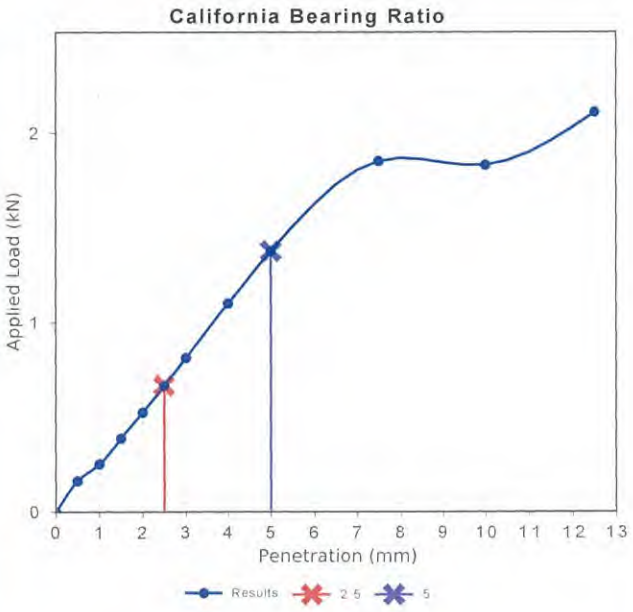
Report Number: T-24-1076-10
Issue Number: 1
Date Issued: 21/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17568
Sample Number: T-17568H
Date Sampled: 14/10/2024
Dates Tested: 14/10/2024 - 19/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: **Burton Crescent Ch: CH 125m, Depth: Subgrade**
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	7		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.97		
Optimum Moisture Content (%)	11.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	101.5		
Dry Density after Soaking (t/m^3)	1.96		
Field Moisture Content (%)			
Moisture Content at Placement (%)	11.0		
Moisture Content Top 30mm (%)	11.3		
Moisture Content Rest of Sample (%)	11.3		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	19.9		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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Report Number: T-24-1076-10
Issue Number: 1
Date Issued: 21/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17568
Sample Number: T-17568I
Date Sampled: 14/10/2024
Dates Tested: 14/10/2024 - 19/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: **Newland Place Ch: CH 130m, Depth: Subgrade**
Material Source: Onsite Existing / Insitu

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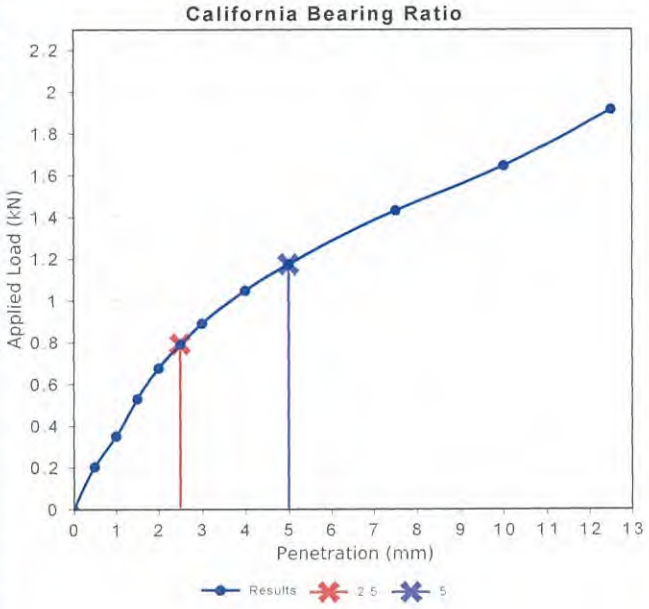
Laboratory Manager
NATA Accredited Laboratory Number: 2911

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	2.5 mm		
CBR %	**6**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.88		
Optimum Moisture Content (%)	12.0		
Laboratory Density Ratio (%)	100.0		
Laboratory Moisture Ratio (%)	100.5		
Dry Density after Soaking (t/m^3)	1.85		
Field Moisture Content (%)			
Moisture Content at Placement (%)	12.2		
Moisture Content Top 30mm (%)	15.1		
Moisture Content Rest of Sample (%)	15.2		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	23.6		
Swell (%)	1.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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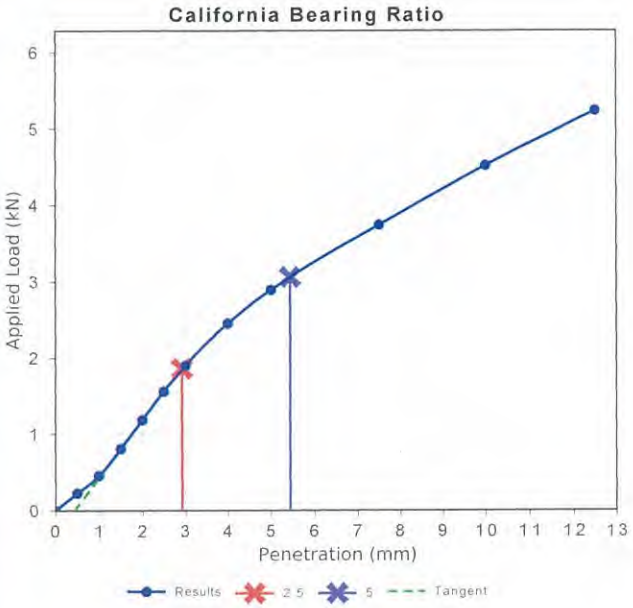
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-10
Issue Number: 1
Date Issued: 21/10/2024
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 17568
Sample Number: T-17568J
Date Sampled: 14/10/2024
Dates Tested: 14/10/2024 - 19/10/2024
Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location: **Newland Place Ch: CH 230m, Depth: Subgrade**
Material Source: Onsite Existing / Insitu

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**15**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.92		
Optimum Moisture Content (%)	11.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	95.5		
Dry Density after Soaking (t/m^3)	1.90		
Field Moisture Content (%)			
Moisture Content at Placement (%)	10.8		
Moisture Content Top 30mm (%)	13.3		
Moisture Content Rest of Sample (%)	12.8		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	24.0		
Swell (%)	1.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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Report Number:	**T-24-1076-10**
Issue Number:	1
Date Issued:	21/10/2024
Client:	Newlands Civil Construction Pty Ltd 6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact:	Simon Bowles
Project Number:	T-24-1076
Project Name:	Parklake Adare Subdivision Stage 4 & 5
Work Request:	17568
Sample Number:	T-17568K
Date Sampled:	14/10/2024
Dates Tested:	14/10/2024 - 19/10/2024
Sampling Method:	AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench
Preparation Method:	AS 1289.1.1 - Sampling and Preparation of Soils
Sample Location:	**Newland Place Ch: CH 300m, Depth: Subgrade**
Material Source:	Onsite Existing / Insitu

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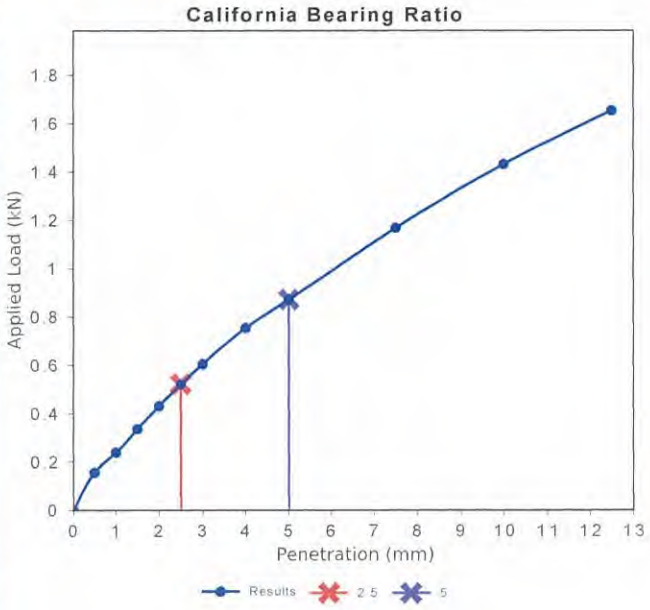
Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

California Bearing Ratio (AS 1289 6.1.1 & 2.1.1)		Min	Max
CBR taken at	5 mm		
CBR %	**4.5**		
Method of Compactive Effort	Standard		
Method used to Determine MDD	AS 1289 5.1.1 & 2.1.1		
Method used to Determine Plasticity	Visual / Tactile		
Maximum Dry Density (t/m^3)	1.78		
Optimum Moisture Content (%)	14.5		
Laboratory Density Ratio (%)	100.5		
Laboratory Moisture Ratio (%)	98.0		
Dry Density after Soaking (t/m^3)	1.76		
Field Moisture Content (%)			
Moisture Content at Placement (%)	14.0		
Moisture Content Top 30mm (%)	19.4		
Moisture Content Rest of Sample (%)	16.2		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours (h)	20.9		
Swell (%)	1.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)			



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Phone: (07) 4633 4875
Email: Neil.hooper@sqs.net.au

Report Number:	T-24-1076-9
Issue Number:	1
Date Issued:	17/10/2024
Client:	Newlands Civil Construction Pty Ltd 6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact:	Simon Bowles
Project Number:	T-24-1076
Project Name:	Parklake Adare Subdivision Stage 4 & 5
Work Request:	17597
Date Sampled:	15/10/2024
Dates Tested:	16/10/2024 - 16/10/2024
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method:	AS 1289.1.1 - Sampling and Preparation of Soils
Specification:	COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)
Location:	Parklake Adare - Lot's 22, 35, 36
Material:	Sandy Silty Clay
Material Source:	Existing / Cut to Fill

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Approved Signatory: Neil Hooper
Senior Technician
NATA Accredited Laboratory Number: 2911

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	T-17597A	T-17597B	T-17597C
Date Tested	15/10/2024	15/10/2024	15/10/2024
Time Tested	14:30	14:40	14:50
Test Request #/Location	Lot 35	Lot 36	Lot 22
Easting	430358.985	430340.457	430339.957
Northing	6954888.877	6954895.565	69549173.150
Elevation (m)	114.671	114.751	114.448
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) %	**	**	**
Oversize (dry basis) %	**	**	**
Curing Hours	2.6	2.8	3.1
Method used to Determine Plasticity	Visual / Tactile	Visual / Tactile	Visual / Tactile
Field Wet Density (FWD) t/m^3	2.06	2.20	2.16
Field Moisture Content %	15.2	13.9	13.8
Field Dry Density t/m^3	1.79	1.93	1.90
Maximum Dry Density t/m^3	1.81	1.89	1.91
Adjusted Maximum Dry Density t/m^3	**	**	**
Optimum Moisture Content %	15.0	15.5	15.5
Adjusted Optimum Moisture Content %	**	**	**
Moisture Variation %	-0.5	1.5	1.5
Moisture Ratio %	102.5	89.0	90.0
Density Ratio %	**99.0**	**102.0**	**99.5**
Compaction Method	**Standard**	**Standard**	**Standard**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

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Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-30
Issue Number: 1
Date Issued: 17/02/2025
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 18887
Date Sampled: 10/02/2025
Dates Tested: 10/02/2025 - 13/02/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)
Location: Parkland Adare Subdivision Stage 4 & 5 - Lot 21, 22 & 23 General Fill
Material: Gravelly Sandy Clay
Material Source: Helidon Sandstone Quarry

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	T-18887A	T-18887B	T-18887C
Date Tested	10/02/2025	10/02/2025	10/02/2025
Time Tested	12:50	13:00	13:10
Test Request #/Location	Lot 21	Lot 22	Lot 23
Easting	430293.819	430325.870	430362.828
Northing	6954944.279	6954939.609	6954931.881
Elevation (m)	114.254	109.111	109.503
Layer / Reduced Level	General Fill	General Fill	General Fill
Thickness of Layer (mm)	200	200	200
Soil Description	Gravelly Sandy Clay	Gravelly Sandy Clay	Gravelly Sandy Clay
Test Depth (mm)	175	175	175
Fraction Tested (mm)	37.5	37.5	37.5
Oversize (wet basis) %	7	6	7
Oversize (dry basis) %	7	6	7
Curing Hours	16.9	3.0	5.5
Method used to Determine Plasticity	Visual / Tactile	Visual / Tactile	Visual / Tactile
Field Wet Density (FWD) t/m^3	2.11	2.17	2.09
Field Moisture Content %	9.2	10.2	8.0
Field Dry Density t/m^3	1.93	1.97	1.93
Maximum Dry Density t/m^3	1.95	1.93	1.98
Adjusted Maximum Dry Density t/m^3	1.97	1.95	2.00
Optimum Moisture Content %	9.0	10.0	9.5
Adjusted Optimum Moisture Content %	8.5	9.5	9.0
Moisture Variation %	-0.5	-1.0	1.0
Moisture Ratio %	108.0	110.0	89.5
Density Ratio %	**98.0**	**101.0**	**97.0**
Compaction Method	**Standard**	**Standard**	**Standard**

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report

SQS www.sqs.net.au
SOIL QUALITY SERVICES
AMB Geotech SQS Pty Ltd
ABN 36 631 788 620

SQS
Toowoomba Laboratory
15 Rocla Court Toowoomba QLD 4350
Phone: (07) 4633 4875
Email: Toowoomba@sqs.net.au

Report Number:	**T-24-1076-31**
Issue Number:	1
Date Issued:	17/02/2025
Client:	Newlands Civil Construction Pty Ltd 6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact:	Simon Bowles
Project Number:	T-24-1076
Project Name:	Parklake Adare Subdivision Stage 4 & 5
Work Request:	18894
Date Sampled:	11/02/2025
Dates Tested:	11/02/2025 - 12/02/2025
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method:	AS 1289.1.1 - Sampling and Preparation of Soils
Specification:	COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)
Location:	Parklake Adare Subdivision Stage 4 & 5 - Lot 21, 22 & 23 General Fill
Material:	Silty Sandy Gravel
Material Source:	Helidon Sandstone Quarry

NATA
WORLD RECOGNISED 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			
Sample Number	T-18894A	T-18894B	T-18894C
Date Tested	11/02/2025	11/02/2025	11/02/2025
Time Tested	12:00	12:10	12:20
Test Request #/Location	Lot 21	Lot 22	Lot 23
Easting	430301.929	430329.975	430365.947
Northing	6954946.632	6954933.146	6954923.361
Elevation (m)	114.174	113.707	113.804
Layer / Reduced Level	General Fill	General Fill	General Fill
Thickness of Layer (mm)	200	200	200
Soil Description	Silty Sandy Gravel	Silty Sandy Gravel	Silty Sandy Gravel
Test Depth (mm)	175	175	175
Fraction Tested (mm)	37.5	37.5	37.5
Oversize (wet basis) %	9	9	8
Oversize (dry basis) %	9	9	8
Curing Hours	2.4	4.8	3.4
Method used to Determine Plasticity	Visual / Tactile	Visual / Tactile	Visual / Tactile
Field Wet Density (FWD) t/m^3	2.12	2.13	2.14
Field Moisture Content %	6.8	9.6	9.3
Field Dry Density t/m^3	1.98	1.94	1.96
Maximum Dry Density t/m^3	2.00	1.95	1.98
Adjusted Maximum Dry Density t/m^3	2.02	1.98	1.99
Optimum Moisture Content %	8.5	9.5	10.0
Adjusted Optimum Moisture Content %	8.0	9.0	9.0
Moisture Variation %	1.0	-1.0	-0.5
Moisture Ratio %	87.0	109.0	104.0
Density Ratio %	**98.0**	**98.0**	**98.5**
Compaction Method	**Standard**	**Standard**	**Standard**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

SQS www.sqs.net.au
SOIL QUALITY SERVICES
AMB Geotech SQS Pty Ltd
ABN 36 631 788 620

SQS
Toowoomba Laboratory
15 Rocla Court Toowoomba QLD 4350
Phone: (07) 4633 4875
Email: Toowoomba@sqs.net.au

Accredited for compliance with ISO/IEC 17025 - Testing

NATA
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-32
Issue Number: 1
Date Issued: 17/02/2025
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Simon Bowles
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 18925
Date Sampled: 12/02/2025
Dates Tested: 12/02/2025 - 13/02/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)
Location: Parklake Adare Subdivision Stage 4 & 5 - Lots 21, 22 & 23 General Fill
Material: Sandy Gravel
Material Source: Helidon Sandstone Quarry

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	T-18925A	T-18925B	T-18925C
Date Tested	12/02/2025	12/02/2025	12/02/2025
Time Tested	08:10	08:20	08:30
Test Request #/Location	Lot 23	Lot 22	Lot 21
Easting	430389.560	430301.513	430339.625
Northing	6954915.171	6954938.606	6954940.379
Elevation (m)	113.695	114.529	113.864
Layer / Reduced Level	Final Layer	Final Layer	Final Layer
Thickness of Layer (mm)	200	200	200
Soil Description	Sandy Gravel	Sandy Gravel	Sandy Gravel
Test Depth (mm)	175	175	175
Fraction Tested (mm)	37.5	37.5	37.5
Oversize (wet basis) %	12	7	7
Oversize (dry basis) %	12	7	7
Curing Hours	2.1	2.5	2.9
Method used to Determine Plasticity	Visual / Tactile	Visual / Tactile	Visual / Tactile
Field Wet Density (FWD) t/m^3	2.18	2.22	2.19
Field Moisture Content %	7.2	8.6	7.1
Field Dry Density t/m^3	2.03	2.04	2.04
Maximum Dry Density t/m^3	2.00	1.99	2.02
Adjusted Maximum Dry Density t/m^3	2.00	2.00	2.04
Optimum Moisture Content %	8.5	9.0	9.0
Adjusted Optimum Moisture Content %	7.5	8.0	8.5
Moisture Variation %	0.0	-0.5	1.5
Moisture Ratio %	97.0	105.0	84.0
Density Ratio %	**102.0**	**102.0**	**100.0**
Compaction Method	**Standard**	**Standard**	**Standard**

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC

Material Test Report

SQS www.sqs.net.au
SOIL QUALITY SERVICES
AMB Geotech SQS Pty Ltd
ABN 36 631 788 620

SQS
Toowoomba Laboratory
15 Rocla Court Toowoomba QLD 4350
Phone: (07) 4633 4875
Email: Toowoomba@sqs.net.au

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Kevin Kivinen
Laboratory Manager
NATA Accredited Laboratory Number: 2911

Report Number: T-24-1076-34
Issue Number: 1
Date Issued: 12/03/2025
Client: Newlands Civil Construction Pty Ltd
6 Ann Street (PO Box 3407), Toowoomba QLD 4350
Contact: Jaimin Patel
Project Number: T-24-1076
Project Name: Parklake Adare Subdivision Stage 4 & 5
Work Request: 19310
Date Sampled: 05/03/2025
Dates Tested: 05/03/2025 - 10/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: COMPACTION STD: 98% of Standard Compaction with +/- 2% OMC (as advised by client)
Site Selection: Selected by Client
Location: Parkland Adare Subdivision Stage 4 & 5 - Lot 23 General Fill
Lot Number: Lot 23
Material: Gravelly Sandy Clay
Material Source: Helidon Sandstone Quarry

Compaction Control AS 1289 5.1.1 & 5.4.1 & 5.8.1 & 2.1.1			
Sample Number	T-19310A		
Date Tested	05/03/2025		
Time Tested	11:52		
Test Request #/Location	Lot 23		
Easting	430362.828		
Northing	6954931.881		
Elevation (m)	109.503		
Layer / Reduced Level	General Fill		
Thickness of Layer (mm)	200		
Soil Description	Gravelly Sandy Clay		
Test Depth (mm)	175		
Fraction Tested (mm)	19.0		
Oversize (wet basis) %	**		
Oversize (dry basis) %	**		
Curing Hours	2.0		
Method used to Determine Plasticity	Visual / Tactile		
Field Wet Density (FWD) t/m^3	2.18		
Field Moisture Content %	10.2		
Field Dry Density t/m^3	1.97		
Maximum Dry Density t/m^3	1.94		
Adjusted Maximum Dry Density t/m^3	**		
Optimum Moisture Content %	12.0		
Adjusted Optimum Moisture Content %	**		
Moisture Variation %	2.0		
Moisture Ratio %	85.5		
Density Ratio %	**101.5**		
Compaction Method	**Standard**		

Moisture Variation Note:
Positive values = test is dry of OMC
Negative values = test is wet of OMC

DAILY EARTHWORKS

SQS

Client: Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 10/09/2024 **Tested By:** sqs-michaelc

Work Request: 17158

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	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?	Yes	Refer to plan
		Proof Roll on Attached Plan
Have you done required testing for the day?	Yes	Proof Roll only
Have you got accurate and useful locations for tests taken?	Yes	
Have you noted on a plan of the job the approximate locations of tests taken?	Yes	Proof Roll on Attached Plan
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes	
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	Yes	
Estimated quantity of fill?	0	
Estimated thickness of layer placed?	0	
Weather observations	Fine	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor	0	Size ?		Grader	1			Highway Truck	0
Roller- Padfoot	1	Weight ?	18t	Bulldozer	0	Size ?		Moxy	2
Roller- Smoothdrum	0	Weight ?		Excavator	0	Size ?		Scraper	1
Water Cart	2								
Other									

Remarks	
Time	Remarks
	Inspected Newland's Place Road stripped area and was free from all organic's. Proof rolled Newland's place road with loaded water cart with n visible movement. (proof rolled on attached plan).
	1 x Proof Roll
	1 x Water Cart 1 x Grader 1 x Grader 1 x Pad Foot Roller
	Onsite Hour's 1

SQS

Client : Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 16/09/2024 **Tested By:** sqs-michaelc

Work Request: 17124

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	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?	Yes	Refer to plan
		On Attached Plan
Have you done required testing for the day?	Yes	
Have you got accurate and useful locations for tests taken?	Yes	
Have you noted on a plan of the job the approximate locations of tests taken?	Yes	
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes	
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	Yes	
Estimated quantity of fill?	<1500	
Estimated thickness of layer placed?	200	
Weather observations	Fine	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor	0	Size ?		Grader	1			Highway Truck	0
Roller- Padfoot	1	Weight ?	18t	Bulldozer	1	Size ?	D6	Moxy	2
Roller- Smoothdrum	0	Weight ?		Excavator	1	Size ?	30t	Scraper	1
Water Cart	1								
Other									

Remarks	
Time	Remarks
	Placing existing cut to fill material Easement, Dam, and lot 10. Placing material at 200mm compacted layers with good moisture. Proof rolling Dam and Newlands Place Road on stage 5 and proof rolling fill area on Burton Crescent road with loaded water cart with no visible Movement
	2 x AS1289.5.8.1 2 x AS1289.5.1.1
	1 x Pad Foot Roller 1 x Grader 1 x Water Cart 1 x Bulldozer 1 x Excavator 2 x Moxy's
	Onsite Hours 1.5

SQS

Client : Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 17/09/2024 **Tested By:** sqs-michaelc

Work Request: 17136

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	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
		Marked with GPS
Have you done required testing for the day?	Yes	
Have you got accurate and useful locations for tests taken?	Yes	
Have you noted on a plan of the job the approximate locations of tests taken?	No	Marked with GPS
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes	
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	Yes	
Estimated quantity of fill?	<2000	
Estimated thickness of layer placed?	200mm	
Weather observations	Fine	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor		Size ?		Grader				Highway Truck	
Roller- Padfoot		Weight ?		Bulldozer		Size ?		Moxy	
Roller- Smoothdrum		Weight ?		Excavator		Size ?		Scraper	
Water Cart									
Other									

Remarks	
Time	Remarks
	Placing existing cut to fill material on Newlands Place Road and Dam area. Placing material at 200mm compacted layers with good moisture.
	4 x AS1289.5.8.1 4 x AS1289.5.1.1
	1 x Grader 1 x Pad Foot Roller 1 x Scraper 2 x Water Carts 1 x Bulldozer
	Onsite Hours 1.5

SQS

Client : Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 18/09/2024 **Tested By:** sqs-michaelc

Work Request: 17156

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	Yes	
Is the material at a suitable moisture content for placament?	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
		Marked with GPS
Have you done required testing for the day?	Yes	
Have you got accurate and useful locations for tests taken?	Yes	
Have you noted on a plan of the job the approximate locations of tests taken?	No	Marked with GPS
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes	
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	Yes	
Estimated quantity of fill?	<2000	
Estimated thickness of layer placed?	200mm	
Weather observations	Fine	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor	0	Size ?		Grader	1			Highway Truck	0
Roller- Padfoot	1	Weight ?	18t	Bulldozer	1	Size ?	D6	Moxy	0
Roller- Smoothdrum	0	Weight ?		Excavator	0	Size ?		Scraper	1
Water Cart	2								
Other									

Remarks	
Time	Remarks
	Placing existing cut to fill material on Newland Place Road and Dam and lot 22. Placing material at 200mm compacted layers with good moisture.
	4 x AS1289.5.8.1 4 x AS1289.5.1.1
	1 x Grader 1 x Bulldozer 1 x Pad Foot Roller 1 x Scraper 2 x Water Carts
	Onsite Hours 2

SQS

Client : Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 19/09/2024 **Tested By:** sqs-michaelc

Work Request: 17203

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	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?	Yes	Refer to plan
		Marked with GPS
Have you done required testing for the day?	Yes	
Have you got accurate and useful locations for tests taken?	Yes	
Have you noted on a plan of the job the approximate locations of tests taken?	No	Marked with GPS
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes	
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	Yes	
Estimated quantity of fill?	<1500	
Estimated thickness of layer placed?	200	
Weather observations	Fine	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor	0	Size ?		Grader	1			Highway Truck	0
Roller- Padfoot	1	Weight ?	18t	Bulldozer	1	Size ?	D6	Moxy	2
Roller- Smoothdrum	0	Weight ?		Excavator	0	Size ?		Scraper	1
Water Cart	2								
Other									

Remarks	
Time	Remarks
	Placing existing cut to fill material on lot's 20, 22, Newland's road. Placing material at 200mm compacted layers with good moisture.
	3 x AS1289.5.8.1 3 x AS1289.5.1.1
	1 x Bulldozer 1 x Pad Foot Roller 2 x Ware Carts 2 x Moxy's 1 x Scrapers
	Onsite Hours 2

SQS

Client : Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 25/09/2024 **Tested By:** sqs-michaelc

Work Request: 17301

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	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
		Marked with GPS
Have you done required testing for the day?	Yes	
Have you got accurate and useful locations for tests taken?	Yes	
Have you noted on a plan of the job the approximate locations of tests taken?	No	marked with GPS
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes	
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	Yes	
Estimated quantity of fill?	<1500m3	
Estimated thickness of layer placed?	200mm	
Weather observations	Fine	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor	0	Size ?		Grader	1			Highway Truck	0
Roller- Padfoot	1	Weight ?	18t	Bulldozer	1	Size ?	D6	Moxy	0
Roller- Smoothdrum	0	Weight ?		Excavator	1	Size ?	30t	Scraper	1
Water Cart	1								
Other									

Remarks	
Time	Remarks
	Placing existing cut to fill material on lot's 146, 36, 37. Placing material at 200mm compacted layers with good moisture.
	3 x AS1289.5.8.1 3 x AS1289.5.1.1
	1 x Water Cart 1 x Pad Foot Roller 1 x Scraper 1 x Excavator 1 x Bulldozer 1 x Grader
	Onsite Hours 1.5

SQS

Client : Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 03/10/2024 **Tested By:** sqs-michaelc

Work Request: 17457

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	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
		Marked with GPS
Have you done required testing for the day?	Yes	
Have you got accurate and useful locations for tests taken?	Yes	
Have you noted on a plan of the job the approximate locations of tests taken?	No	Marked with GPS
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes	
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	Yes	
Estimated quantity of fill?	<1500	
Estimated thickness of layer placed?	200	
Weather observations	Fine	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor	0	Size ?		Grader	1			Highway Truck	0
Roller- Padfoot	1	Weight ?	18t	Bulldozer	1	Size ?	D6	Moxy	0
Roller- Smoothdrum	0	Weight ?		Excavator	1	Size ?	30t	Scraper	1
Water Cart	2								
Other									

Remarks	
Time	Remarks
	Started back placing existing cut to fill material on lot's 21, 22, 23. Placing material at 200mm compacted layers with good moisture.
	3 x AS1289.5.8.1 3 x AS1289.5.1.1
	1 x Grader 1 x Bulldozer 1 x Pad Foot Roller 1 x Excavator 1 x Scraper 2 x Water Carts
	Onsite Hours 1.5

SQS

Client : Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 15/10/2024 **Tested By:** sqs-michaelc

Work Request: 17597

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	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
		Marked with GPS
Have you done required testing for the day?	Yes	
Have you got accurate and useful locations for tests taken?	Yes	
Have you noted on a plan of the job the approximate locations of tests taken?	No	Marked with GPS
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes	
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	Yes	
Estimated quantity of fill?	<1500	
Estimated thickness of layer placed?	200mm	
Weather observations	Overcast	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor	0	Size ?		Grader	1			Highway Truck	2
Roller- Padfoot	1	Weight ?		Bulldozer	0	Size ?		Moxy	0
Roller- Smoothdrum	0	Weight ?		Excavator	1	Size ?		Scraper	0
Water Cart	2								
Other									

Remarks	
Time	Remarks
	Placing existing cut to fill material on lot's 22, 35, 36. Placing material at 200mm compacted layers with good moisture.
	3 x AS1289.5.8.1 3 x AS1289.5.1.1
	1 x Grader 1 x Pad Foot Roller 1 x Excavator 2 x Water Carts 2 x Body Trucks
	Onsite Hours 1

SQS

Client : Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 10/02/2025 **Tested By:** sqs-mattj

Work Request: 18887

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	Yes	HSI
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?	Yes	Refer to plan
		Marked with GPS
Have you done required testing for the day?	Yes	
Have you got accurate and useful locations for tests taken?	Yes	Marked with GPS
Have you noted on a plan of the job the approximate locations of tests taken?	Yes	Marked with GPS
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes	Lot 21, 22, 23
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	N/A	
Estimated quantity of fill?	<1500m3	
Estimated thickness of layer placed?	200mm	
Weather observations	Hot	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor	0	Size ?		Grader	1			Highway Truck	2
Roller- Padfoot	1	Weight ?		Bulldozer	0	Size ?		Moxy	0
Roller- Smoothdrum	0	Weight ?		Excavator	1	Size ?		Scraper	0
Water Cart	1								
Other									

Remarks	
Time	Remarks
12:15	Arrived onsite & inspected fill placement area.
12:20	Placing imported fill on Lot 21, 22 & 23 , placing at 200mm compacted layers at good moisture.
13:15	Offsite.
	1 x Grader, 1 x Padfoot Roller, 1 x Excavator, 1 x Watercart, 2 x Truck & Dog, 1 x Body Truck
	3 x AS1289.5.1.1 / 5.8.1 (B MOULDS)
	total 1 hour onsite.

SQS

Client : Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 11/02/2025 **Tested By:** sqs-mattj

Work Request: 18894

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	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?	Yes	Refer to plan
		Marked with GPS
Have you done required testing for the day?	Yes	
Have you got accurate and useful locations for tests taken?	Yes	Marked with GPS
Have you noted on a plan of the job the approximate locations of tests taken?	Yes	Marked with GPS
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes	Lot 21, 22 & 23
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	N/A	
Estimated quantity of fill?	<1500m3	
Estimated thickness of layer placed?	200mm	
Weather observations	Hot	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor	0	Size ?		Grader	1			Highway Truck	2
Roller- Padfoot	1	Weight ?		Bulldozer	0	Size ?		Moxy	0
Roller- Smoothdrum	0	Weight ?		Excavator	1	Size ?		Scraper	0
Water Cart	1								
Other									

Remarks	
Time	Remarks
11:30	Arrived onsite & inspected fill placement area.
11:35	Placing imported fill on Lot 21, 22 & 23 , placing at 200mm compacted layers at good moisture.
12:30	Offsite.
	1 x Grader, 1 x Padfoot Roller, 1 x Excavator, 1 x Watercart, 2 x Truck & Dog, 1 x Body Truck
	3 x AS1289.5.1.1 / 5.8.1 (B MOULDS)
	total 1 hour onsite.

SQS

Client : Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 12/02/2025 **Tested By:** sqs-mattb

Work Request: 18925

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	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?	Yes	Refer to plan
		Marked with GPS
Have you done required testing for the day?	Yes	
Have you got accurate and useful locations for tests taken?	Yes	Marked with GPS
Have you noted on a plan of the job the approximate locations of tests taken?	Yes	Marked with GPS
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes / No / N/A	Lot 21,22,23
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	Yes	
Estimated quantity of fill?	<1500 m3	
Estimated thickness of layer placed?	200	
Weather observations	Hot	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor	0	Size ?		Grader	1			Highway Truck	2
Roller- Padfoot	1	Weight ?		Bulldozer	0	Size ?		Moxy	
Roller- Smoothdrum	0	Weight ?		Excavator	1	Size ?		Scraper	
Water Cart	1								
Other									

Remarks	
Time	Remarks
	Arrived onsite & inspected fill placement area.
	Placing imported fill on Lot 21, 22 & 23 , placing at 200mm compacted layers at good moisture. Testing final layer.
	3 x AS1289.5.1.1 / 5.8.1
	1 x Grader, 1 x Padfoot Roller, 1 x Excavator, 1 x Watercart, 2 x Truck & Dog, 1 x Body Truck
	Onsite Hours 1.0

SQS

Client : Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 07/03/2025 **Tested By:** sqs-michaelc

Work Request: 19557

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	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?	Yes	Refer to plan
Have you done required testing for the day?	Yes	
Have you got accurate and useful locations for tests taken?	Yes	
Have you noted on a plan of the job the approximate locations of tests taken?	Yes	
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes	
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	Yes	
Estimated quantity of fill?	0	
Estimated thickness of layer placed?	200mm	
Weather observations	Fine	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor	0	Size ?		Grader	0			Highway Truck	0
Roller- Padfoot	0	Weight ?		Bulldozer	0	Size ?		Moxy	0
Roller- Smoothdrum	0	Weight ?		Excavator	0	Size ?		Scraper	0
Water Cart	1								
Other									

Remarks	
Time	Remarks
	Conducted proof roll on lot's 10, 21, 22, 23, 35, 36, 37, 146 final layer. Conducted proof roll with loaded water cart with no visible movement.
	1 x Proof Roll
	1 x Water Cart
	Onsite Hour's 1

SQS

Client : Newlands Civil Construction Pty Ltd **Project #:** T-24-1076 **Project Name:** Parklake Adare Subdivision Stage 4 & 5

Location: **Test Date:** 12/03/2025 **Tested By:** sqs-mattb

Work Request: 19310

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	If not, speak to client about getting it done. It must be done before filling takes place on the area. Discuss movement, water issues etc with site supervisor
Does the fill area look as it was when you were last here?	Yes	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 been removed?	Yes	Record material description, location, and where it was sent
Does the material meet specifications and is it fit for purpose?	Yes	If not, speak to client about other sources of material. Make notes on this issue.
Have you noted the source of the material?	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?	Yes	Refer to plan
Have you done required testing for the day?	Yes	
Have you got accurate and useful locations for tests taken?	Yes	
Have you noted on a plan of the job the approximate locations of tests taken?	Yes	
Have you filled out the summary sheet including hours onsite and lots worked on?	Yes	
Have you filled out Daily Monitoring Sheet with actions taken for the day?	Yes	
Have you noted construction methods and machinery used for the day?	Yes	
Have you made notes of any significant conversations had with the client or contractors ?	Yes	
Estimated quantity of fill?	0	
Estimated thickness of layer placed?	200	
Weather observations	Overcast	

Potential Contaminations / Environmental Indications							
Note	Notify site foreman and site manager IMMEDIATELY if any of the following are detected.						
Odorous Material	No	Stained Material	No	Deleterious Material	No	Potential Petroleum Contamination	No
Hazardous Building Materials	No	General Waste Material	No				
Remarks							

Machinery / Plant									
Compactor	0	Size ?		Grader	1			Highway Truck	0
Roller- Padfoot	1	Weight ?		Bulldozer	0	Size ?		Moxy	0
Roller- Smoothdrum	0	Weight ?		Excavator	0	Size ?		Scraper	0
Water Cart	1								
Other									

Remarks	
Time	Remarks
	Retest taken in lot 23 on the final layer.
	1 x AS1289.5.8.1 1x AS1289.5.1.1
	Onsite Hours 1.0

PROOF ROLLS & TEST LOCATIONS

Foundation Level

EMERGENCY ACCESS

NEWLAND PLACE

926.321=00

FOR CONTINUATION REFER BELOW

FOR CONTINUATION REFER DWG No. C4201

PROVIDE FILL PADS TO ALL ELECTRICAL AND NBN PITS. REFER DETAIL ON DRG C4290

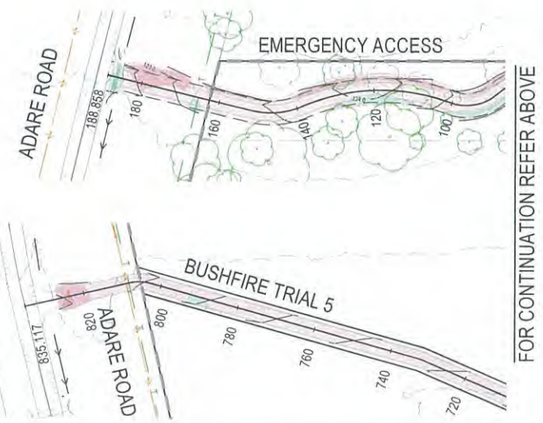
4.0m WIDE FIRE TRAIL

BUSHFIRE TRIAL 6

BUSHFIRE TRIAL 5

Proof Roll Location's

10-9-24



NOTE

1. REFER TO CIVIL SPECIFICATIONS ON DRAWING C4001 FOR SUBGRADE PREPARATION REQUIREMENTS.
2. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE DOUGLAS PARTNERS GEOTECHNICAL REPORT: 93323.00.R.01.REV01 DATED 19TH FEB 2018.
3. DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING

LEVEL 1 COMPACTION

ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE
ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE
(NOTE TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

CUT	FILL	
		0.00m - 0.25m
		0.25m - 0.50m
		0.50m - 1.000m
		1.00m - 2.00m
		> 2.00m

SERVICES (PUP) LEGEND

	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	
GAS	G(*)
WATER MAIN	W(*)

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
MOUNTABLE KERB TYPE M4	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M6	CONTOUR (0.5m)
CONTOUR (1.0m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	STAGE BOUNDARY
TREE TPZ	

REVISIONS			
0	ISSUED FOR CONSTRUCTION	MP	02/08/24
No.	REVISION DESCRIPTION	DRAWN	DATE

PARKLAKE ADARE

N

van der Meer Consulting
van der meer
LEVEL 3, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 812 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

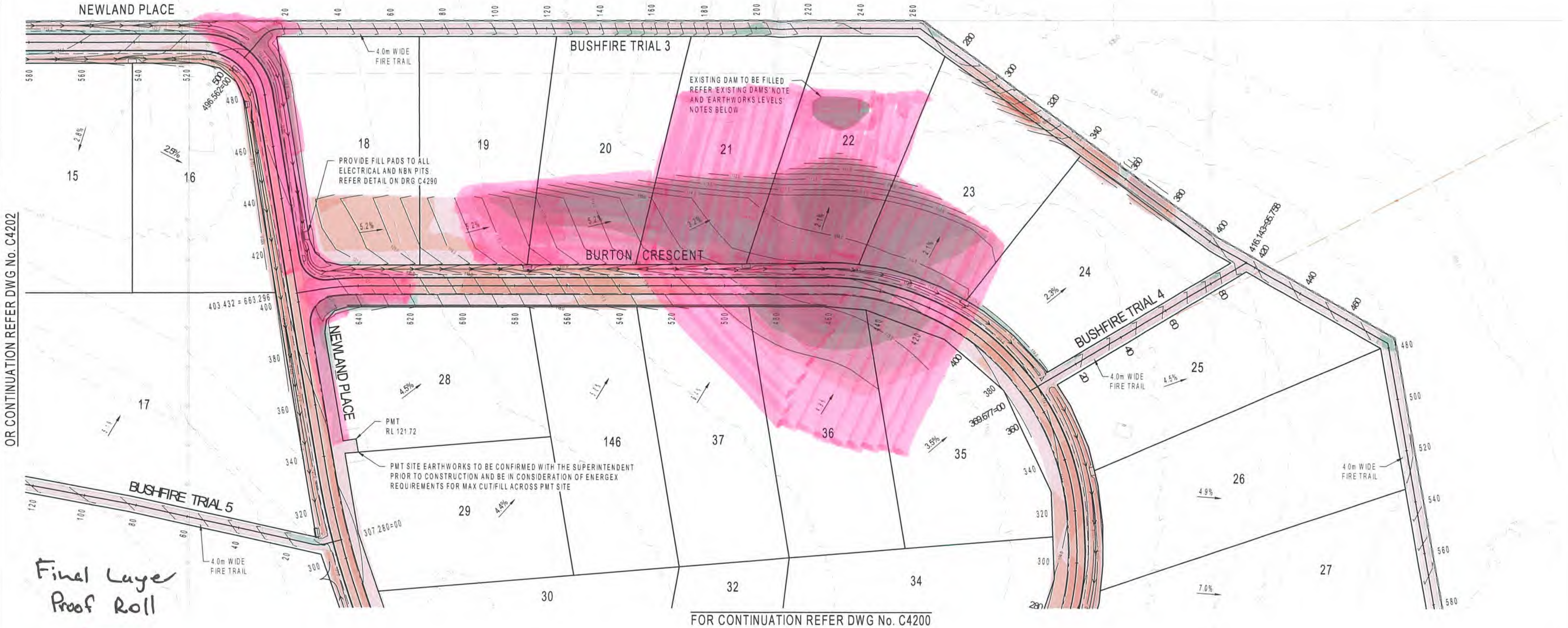
SCALE
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
BULK EARTHWORKS PLAN
SHEET 3

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	RPEQ: 19536 NER: 3053220
CK	MP	C KIRK	
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	02/08/24	A1
JOB No.		DRAWING No.	REVISION
BR242001		C4202	0



Final Laye Proof Roll

7-3-25

NOTE

1. REFER TO CIVIL SPECIFICATIONS ON DRAWING C4001 FOR SUBGRADE PREPARATION REQUIREMENTS.
2. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE DOUGLAS PARTNERS GEOTECHNICAL REPORT 93323.00.R.01.REV01 DATED 19TH FEB 2018.
3. DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING.

LEVEL 1 COMPACTION

ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
INSITU TYPE 3 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY.

CUT	FILL	
		0.00m - 0.25m
		0.25m - 0.50m
		0.50m - 1.000m
		1.00m - 2.00m
		> 2.00m

SERVICES (PUP) LEGEND

	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	
GAS	G(*)
WATER MAIN	W(*)

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
MOUNTABLE KERB TYPE M4	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M6	CONTOUR (0.5m)
CONTOUR (1.0m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	STAGE BOUNDARY
TREE TPZ	

REV	DESCRIPTION	DRAWN	DATE
0	ISSUED FOR CONSTRUCTION	MP	02.08.24

PARKLAKE ADARE

N

van der Meer Consulting

van der meer

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www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
A.B.N. 63 609 612 615

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

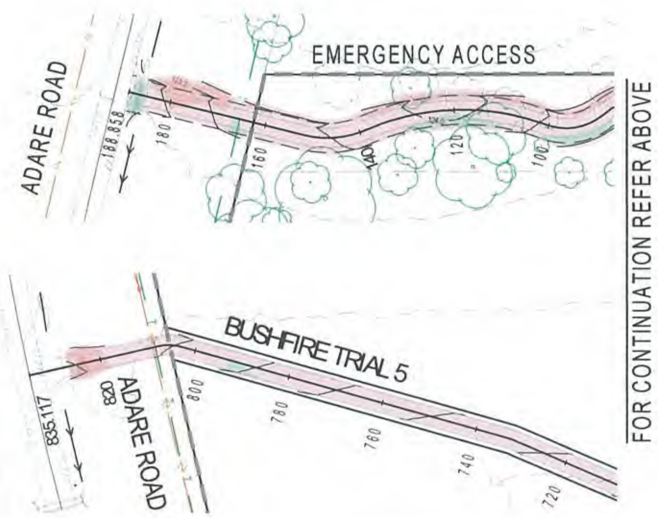
SCALE
0 7.5 15 22.5 30 37.5 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
BULK EARTHWORKS PLAN
SHEET 2

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	02/08/24	A1
JOB No		DRAWING No	REVISION
BR242001		C4201	0



NOTE

1. REFER TO CIVIL SPECIFICATIONS ON DRAWING C4001 FOR SUBGRADE PREPARATION REQUIREMENTS.
2. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE DOUGLAS PARTNERS GEOTECHNICAL REPORT 93323.00.R.01.REV01 DATED 19TH FEB 2018.
3. DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING

LEVEL 1 COMPACTION

ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE
ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE
(NOTE TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

CUT	FILL	
		0.00m - 0.25m
		0.25m - 0.50m
		0.50m - 1.000m
		1.00m - 2.00m
		> 2.00m

SERVICES (PUP) LEGEND

	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	
GAS	G(*)
WATER MAIN	W(*)

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013

LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
MOUNTABLE KERB TYPE M4	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M6	CONTOUR (0.5m)
CONTOUR (1.0m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	STAGE BOUNDARY
TREE TPZ	

REV	REVISION DESCRIPTION	DRAWN	DATE
0	ISSUED FOR CONSTRUCTION	MP	02.08.24

PARKLAKE ADARE

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www.vandermeer.com.au van der Meer (QLD) Pty Ltd A.B.N. 63 609 812 615

CLIENT: PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

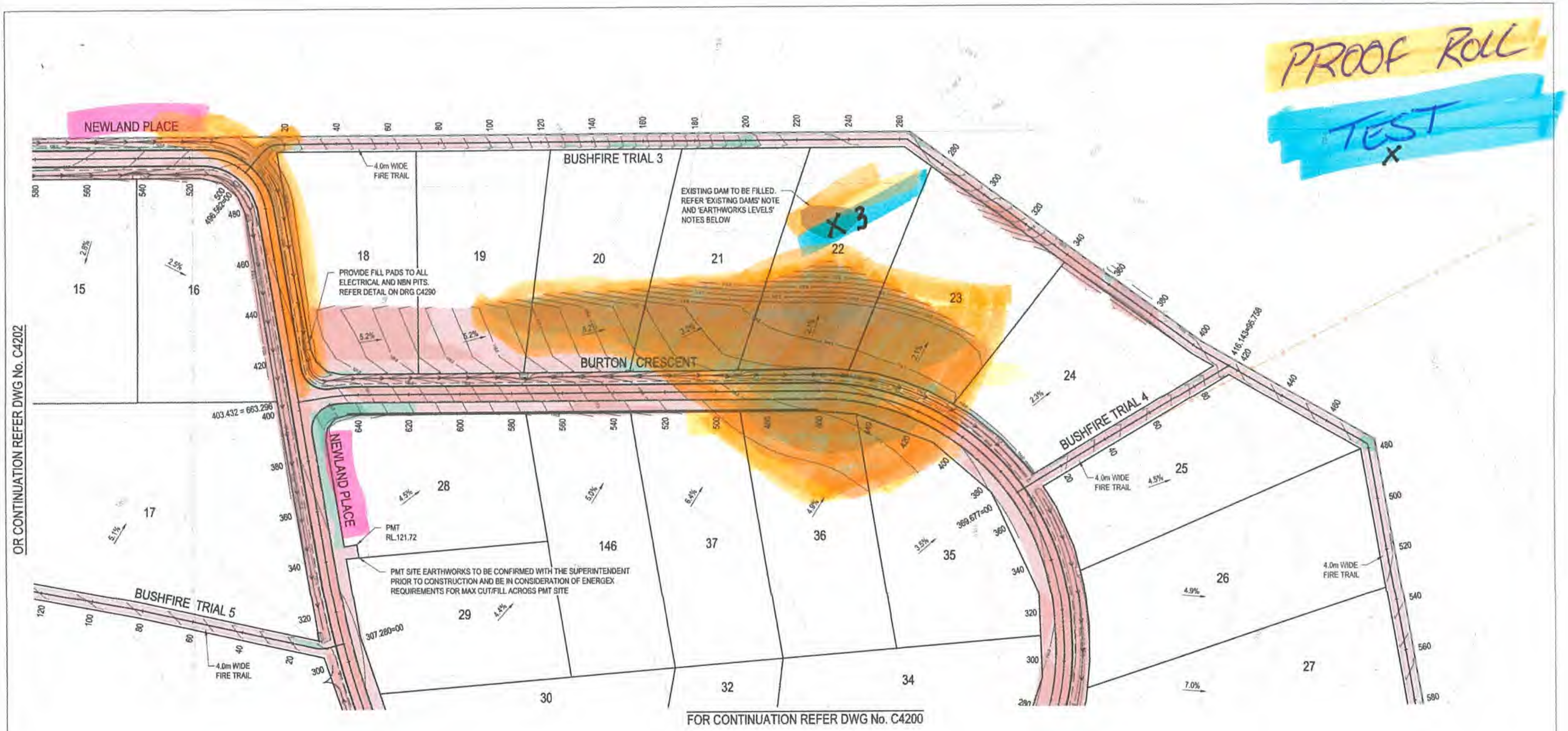
SCALE: 0 – 75m, SCALE 1:750

PROJECT TITLE: PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE: BULK EARTHWORKS PLAN SHEET 3

DRAWING STATUS: ORIGINAL ISSUE FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	02/08/24	A1
JOB No	DRAWING No		REVISION
BR242001	C4202		0



NOTE

1. REFER TO CIVIL SPECIFICATIONS ON DRAWING C4001 FOR SUBGRADE PREPARATION REQUIREMENTS.
2. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE DOUGLAS PARTNERS GEOTECHNICAL REPORT: 93323.00.R.01.REV01 DATED 19TH FEB 2018.
3. DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING

LEVEL 1 COMPACTION

ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
(NOTE TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

CUT	FILL	
		0.00m - 0.25m
		0.25m - 0.50m
		0.50m - 1.000m
		1.00m - 2.00m
		> 2.00m

SERVICES (PUP) LEGEND

	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	
GAS	G(*)
WATER MAIN	W(*)

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
MOUNTABLE KERB TYPE M4	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M6	CONTOUR (0.5m)
CONTOUR (1.0m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	STAGE BOUNDARY
TREE TPZ	

REVISIONS			
0	ISSUED FOR CONSTRUCTION	MP	02/08/24
No	REVISION DESCRIPTION	DRAWN	DATE

PARKLAKE ADARE

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van der Meer (QLD) Pty Ltd A.B.N. 63 608 812 615

CLIENT: PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

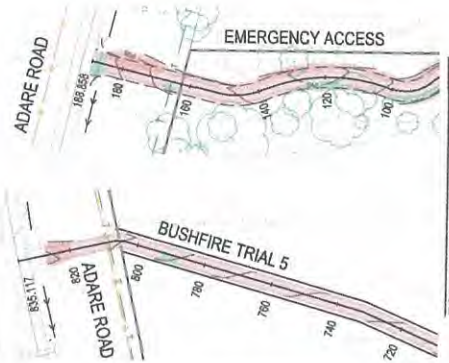
SCALE: 0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE: PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE: BULK EARTHWORKS PLAN SHEET 2

DRAWING STATUS: **ORIGINAL ISSUE** FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	02/08/24	A1
JOB No		DRAWING No	REVISION
BR242001		C4201	0



NOTE

1. REFER TO CIVIL SPECIFICATIONS ON DRAWING C4001 FOR SUBGRADE PREPARATION REQUIREMENTS.
2. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE DOUGLAS PARTNERS GEOTECHNICAL REPORT: 93323.00.R.01.REV01 DATED 19TH FEB 2018.
3. DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING

LEVEL 1 COMPACTION

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(NOTE TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

CUT	FILL	
		0.00m - 0.25m
		0.25m - 0.50m
		0.50m - 1.00m
		1.00m - 2.00m
		> 2.00m

SERVICES (PUP) LEGEND

	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	
GAS	G(*)
WATER MAIN	W(*)

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED
FENCE	OPEN DRAIN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
MOUNTABLE KERB TYPE M4	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M6	CONTOUR (0.5m)
CONTOUR (1.0m)	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	STAGE BOUNDARY
TREE TPZ	

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24

PARKLAKE ADARE

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A.B.N. 63 609 812 615

SCALE 1:750
0 7.5 15 22.5 30 37.5m 75m

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

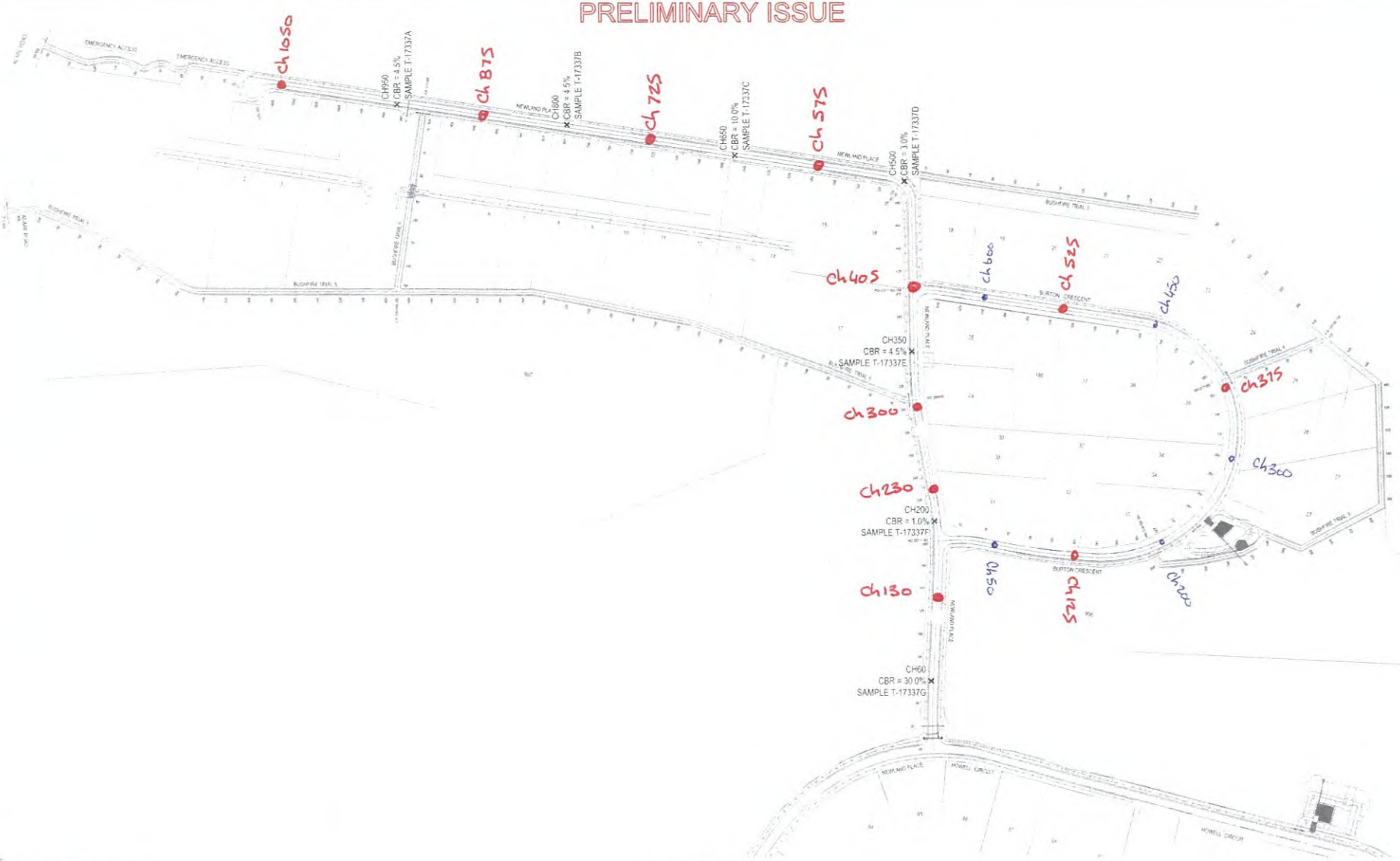
PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
BULK EARTHWORKS PLAN
SHEET 3

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	RPEQ 19555
CK	MP		
DRAFT/DESIGNER	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	02/08/24	A1
JOB No. RP242001	DRAWING No. C4200		REVISION 0

PRELIMINARY ISSUE

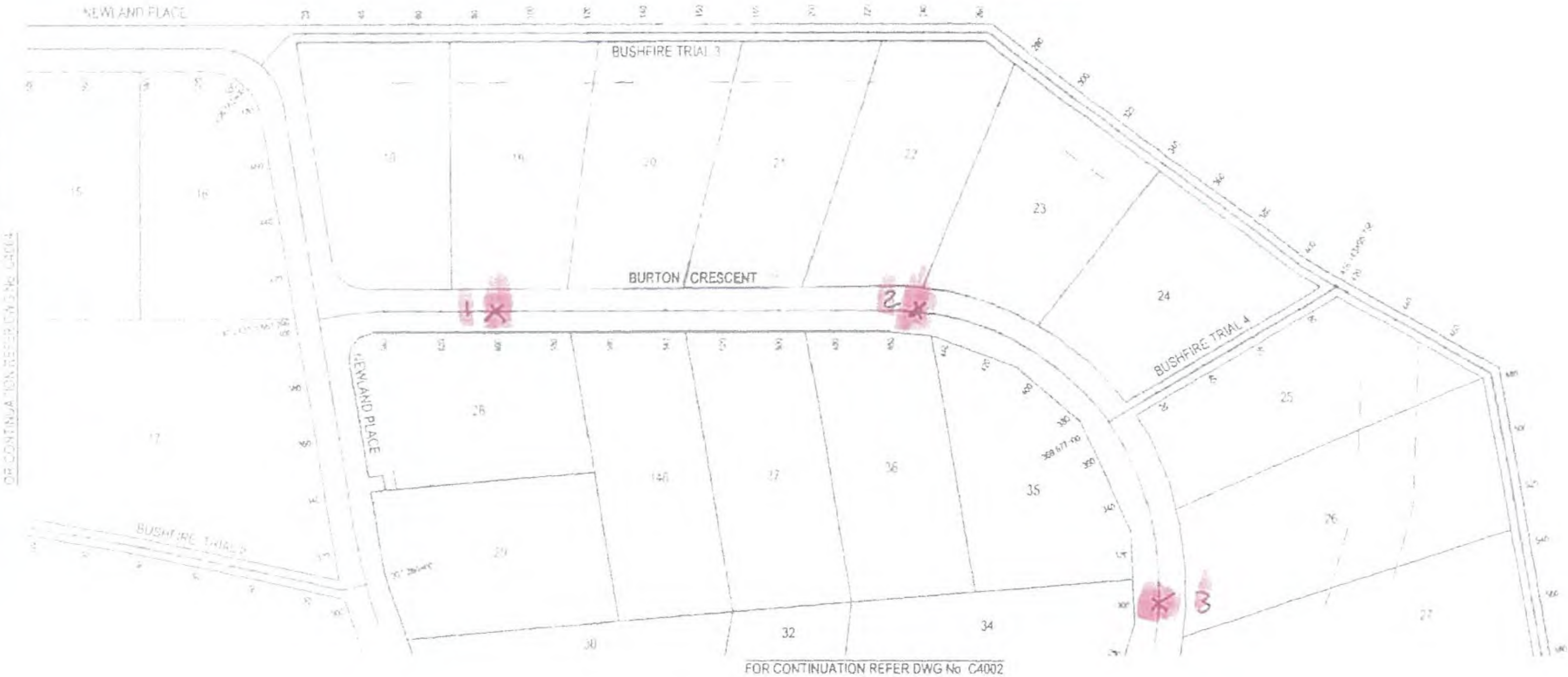


TESTED CBR LOCATIONS

NOTE:
READ IN CONJUNCTION WITH SQS MATERIAL
TEST REPORT NUMBER T-24-1076-7

TITLE: TESTED CBR LOCATIONS
JOB: 2271 - PARK LAKE ADARE STAGES 4 & 5
DRAWING NO: SK004
DATE: 09-10-2024
REVISION: [A]

CBR LOCATIONS
3/10/24



CONTROL LINE SETOUT - BUSHFIRE TRAIL 3

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0.000	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]		R = 1.850	6.808	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			

CONTROL LINE SETOUT - BUSHFIRE TRAIL 4

PT	CHAINAGE	EASTING	NORTHING	BEARING			
IP 1	0.000	[illegible]	[illegible]	[illegible]			
IP 2	[illegible]	[illegible]	[illegible]	[illegible]			

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PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE QLD 4343
STAGES 4 AND 5

SITE PLAN
SHEET 2

ORIGINAL ISSUE
FOR CONSTRUCTION

CK	MP		
MP	AS SHOWN	02/08/24	A1
BR242001		C4003	0

CONTROL LINE SETOUT - NEWLAND PLACE

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH	DEFL ANGLE
IP 1	[illegible]	[illegible]	[illegible]	[illegible]			
TC	12.827	430154.844	6954651.882	358°27'38.88"			
IP 2	31.588	430154.454	6954670.988		R = 500.000	37.848	4°29'53.38"
CT	50.672	430158.384	6954280.513	7°48'32.38"			
TC	154.118	430180.436	6954693.337	7°48'32.38"			
IP 3	188.778	430182.120	6954727.804		R = -300.000	58.311	13°30'52.38"
CT	212.427	430154.022	6954761.366	348°45'40.00"			
TC	263.530	430143.197	6954821.485	348°45'40.00"			
IP 4	309.427	430140.775	[illegible]		R = 300.000	48.834	9°30'46.84"
CT	333.344	430110.408	6954871.815	358°16'29.86"			
TC	480.388	430188.548	6956018.847	358°16'29.86"			
IP 5	456.838	430138.286	6956038.057		R = -31.000	53.098	80°41'32.17"
CT	517.484	430118.357	6956040.880	278°34'57.47"			
TC	1066.036	429563.080	6955131.900	278°34'57.47"			
IP 6	1861.00	429875.888	6956123.813		R = -40.000	16.509	22°57'37.38"
CT	1071.036	429867.197	6956120.886	255°37'20.19"			
IP 7	1078.293	429860.167	6956118.194	256°37'20.19"			

CONTROL LINE SETOUT - BURTON CRESCENT

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A LENGTH	DEFL ANGLE
IP 1	0.000	430180.581	6954721.417	87°38'43.77"			
TC	15.830	430175.136	6954727.130	87°38'42.77"			
IP 2	27.836	430190.379	6954727.868		R = 100.000	24.571	13°37'48.88"
CT	48.621	430209.274	6954729.733	101°24'21.81"			
TC	64.056	430216.834	6954718.889	[illegible]			
IP 3	87.733	430247.177	6954718.798		R = -400.000	58.381	6°48'29.38"
CT	117.429	430276.813	6954758.480	94°38'11.47"			
TC	134.679	430283.967	6954797.022	94°38'11.47"			
IP 4	184.944	430347.278	6954769.779		R = -130.000	100.828	44°02'47.78"
CT	236.354	430386.134	6954738.889	48°33'24.33"			
TC	241.339	430380.856	6954743.621	48°33'24.33"			
IP 5	275.196	430436.178	6954787.988		R = -85.000	87.330	46°38'27.74"
CT	308.880	430418.821	6954802.963	5°58'54.59"			
TC	315.882	430430.329	6954808.785	5°58'54.58"			
IP 6	386.129	430428.833	6954880.862		R = -68.000	144.864	67°23'13.08"
CT	460.358	430398.211	6954817.328	278°34'48.51"			
TC	638.618	430184.142	6954848.087	278°34'48.51"			
IP 7	646.739	430186.086	6954841.309		R = 100.000	15.240	8°18'18.86"
CT	654.859	430147.862	6954841.380	288°16'29.65"			
IP 8	683.299	430138.322	6954841.087	288°16'29.48"			

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PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

SCALE 1:750

PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

SITE PLAN
SHEET 1

ORIGINAL ISSUE
FOR CONSTRUCTION

CK	MP		
MP	AS SHOWN	02/08/24	A1
BR242001		C4002	0