

Waipa District Council Development and Subdivision Engineering Manual	
Volume 4 : Quality Systems for Developments and Subdivisions	Part 6 – Water Reticulation
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PART 6: WATER RETICULATION

6.1 General

Council's Role includes random audits of a sample of the Works for compliance, and witnessing and acceptance of:

- a) All pressure testing and sterilization
- b) All thrust blocks, valves, hydrants and other specials
- c) The final inspection prior to 224 (c) approval.

The Engineer shall carry out the following checks on all works to certify compliance:

- i) Position and depth of pipeline relative to boundary conforms with approved drawings
- ii) Type, class, size of pipes and fittings confirms to HCC Technical Specification Acceptable Products (Volume 3)
- iii) Before pipe laying commences check that pipes are at correct level and alignment to join existing mains and jointing procedures are agreed.
- iv) Thrust blocks installed where required. Check adequacy of bearing.
- v) Correct bedding and surround
- vi) Backfilling to specifications
- vii) All QA checklists and test certificates completed, checked for compliance and submitted to Council as the work progresses
- viii) No debris in pipelines
- ix) Ensure that Contractor carried out successful pre-test prior to advising Council of formal test.
- x) Council present to witness required testing and for final inspection
- xi) As-built information logged.

Checklist 6.1

WATER RETICULATION PIPE LAYING CHECKLIST

Location:	From	From	From	From	From
Name of qualified water service person:	To	To	To	To	To
Pipe Laying Checks					
Pipe size, quality, approved materials checked.					
Set out checked (control points)					
Foundation support - penetrometer results available - if under cutting required, note chainage and CBR results.					
Alignment and cover.					
Bedding type and backfill material (CBR results available for road crossings and driveways).					
All service connections in place.					
Connections and Toby Box correctly located horizontally and vertically.					
Hydrants and valves positioned correctly.					
Thrust blocks installed.					
No debris in pipelines.					
As-built measurements taken.					
Pressure test witnessed and passed by Council representative.					
Bacto sample taken and passed by Council representative PRIOR to connection to the live Council main.					
Connection to live main by Council (unless specifically approved).					

Signature of Contractor

Date

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Checklist 6.2

TRENCH BACKFILL COMPACTION TEST SUMMARY (attach individual test reports)

Location: _____

Plan No.: _____

From MH _____ to MH _____

Acceptance Criteria:

Tests by:(attached)

Analysis of Results

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Trench backfill completed satisfactorily

Trench backfill requires remedial work

Signature of Engineer

Date

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Checklist 6.3

FINAL INSPECTION FOR WATER RETICULATION

Location: _____ **Plan No:** _____

Pre-Meeting Tasks

Developer to verify prior to meeting:	Developer Check	Dev. Eng. Rep Check
All lines flushed out		
All backfilling complete and tidied up		
Checklists 6.1 and 6.2 completed		
Pressure test completed and witnessed		
Bacto test completed and passed		
Final as-built plans attached for a inspection arranged with Council		
Connected to existing supply by Council		
Site Meeting		
Valves and hydrants correctly marked		
Toby boxes installed correctly		
All valves checked on/off		
All works satisfactory		
Remedial work required		

Signature of Developer

Signature of WWS Rep

Date

Date