



**Addendum to the Water Industry Technical
Standards and National Codes of Practice**

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WSA 02-1999

Addendum

PART 2 - MATERIALS

Gippsland Water Business Management System	
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Gippsland Water Addendum

PART 2 - MATERIALS

Table of contents

1.	OVERVIEW	4
1.1	Gravity Sewerage Pipeline Systems	4
1.2	Pipeline System Summary	4
2.	VITRIFIED CLAY PIPE SYSTEM	4
2.1	Pipe	4
2.2	Fittings	4
2.3	Joints	4
2.4	Pipeline Embedment	4
2.5	Pipeline Design	4
2.6	Fitness for Purpose	4
2.7	Limits On Use	4
2.8	Water Industry Experience	4
3.	PVC SYSTEM	4
3.1	Plain Wall and Sandwich Construction PVC Pipe	4
3.2	Fittings	4
3.3	Joints	4
3.4	Pipeline Embedment	4
3.5	Pipeline Design	4
3.6	Fitness for Purpose	5
3.7	Limits on use	5
3.8	Water Industry Experience	5
3.9	Profiled Wall PVC Pipe	5
3.10	Fittings	5
3.11	Joints	5
3.12	Pipeline Embedment	5
3.13	Pipeline Design	5
3.14	Fitness for Purpose	5
3.15	Limits on use	5
3.16	Water Industry Experience	5
4.	PE PLAIN WALL SYSTEM	5
4.1	PE Plain Wall Pipe	5
4.2	Fittings	5
4.3	Joints	5
4.4	Pipeline Design	5
4.5	Fitness for Purpose	5
4.6	Limits on use	5
4.7	Water Industry Experience	6
5.	GLASS REINFORCED PLASTIC SYSTEM GRP	6
5.1	Glass Reinforced Plastic Pipe	6
5.2	Fittings	6
5.3	Joints	6
5.4	Pipeline Design	6
5.5	Fitness for Purpose	6
5.6	Limits on use	6
5.7	Water Industry Experience	6
6.	DUCTILE IRON SYSTEM	6
6.1	Ductile Iron Pipe	6
6.2	Fittings	6
6.3	Joints	6
6.4	Pipeline Design	6
6.5	Fitness for Purpose	6
6.6	Limits on use	6

6.7	Water Industry Experience	6
7.	FIBRE REINFORCED CONCRETE	7
7.1	FRC Pipe.....	7
7.2	Fittings	7
7.3	Joints.....	7
7.4	Pipeline Design	7
7.5	Fitness for Purpose	7
7.6	Water Industry Experience	7
8.	STEEL PIPE SYSTEM	7
8.1	Steel Pipe	7
8.2	Fittings	7
8.3	Joints.....	7
8.4	Pipeline Design.....	7
8.5	Corrosion Protection.....	7
8.6	Fitness for Purpose	7
8.7	Water Industry experience.....	7
9.	MAINTENANCE HOLE AND SHAFT SYSTEMS	7
9.1	MH and MS Systems	7
9.2	Precast Concrete MH System	7
9.3	Maintenance Shafts.....	7
9.4	MH Tops.....	8
9.5	Sealing Strip for concrete MH Covers.....	8
9.6	Sealing Tape for external sealing of precast concrete shaft joints	8
9.7	Step Irons.....	8
9.8	Ladders	8
9.9	Masonry Fasteners	8
10.	SURFACE FITTINGS FOR MAINTENANCE HOLES AND MAINTENANCE AND INSPECTION SHAFTS	8
10.1	Covers And Frames	8
10.2	Inspection and Lamphole Covers.....	8
11.	JOINTING AND SEALING MATERIALS	8
11.1	Jointing Seals-Pipes and Precast Concrete Components	8
11.2	Flange Insertion Gaskets.....	8
11.3	Solvent Cement and Priming Fluid (PVC)	8
11.4	Hydrophilic Rubber	8
12.	OTHER PRODUCTS	8
12.1	Marker Tapes.....	8
12.2	Ventshafts-Educt.....	8
12.3	Ventshafts-Induct.....	8
13.	CIVIL CONSTRUCTION PRODUCTS	9
13.1	Premixed Bagged Concrete	9
13.2	Geotextile.....	9
13.3	Compressible Membrane	9
13.4	Ancillary Cement Products.....	9
14.	REFLUX VALVES AND MISCELLANEOUS PIPELINE FITTINGS	9
14.1	Metal Banded Flexible Couplings with Shear Band (AS 1646 Elastomer only)	9
14.2	Reflux Valve.....	9
14.3	Repair Clamps and Stainless Steel Oblique Branch (OB) Band (Sewer Tapping Bands)	9
	PRODUCT ATLAS	9

1. OVERVIEW

1.1 Gravity Sewerage Pipeline Systems

Gippsland Water does not approve the use of PVC profile wall pipe (or Ultra Rib pipe).
Gippsland Water does not approve the use of FRC pipe.

1.2 Pipeline System Summary

VC (vitrified clay) pipe is to be used in Industrial and Commercial areas.

2. VITRIFIED CLAY PIPE SYSTEM

2.1 Pipe

No addendum.

2.2 Fittings

No addendum.

2.3 Joints

Gippsland Water only approves the use of styrene butadiene rubber (SBR) rings.

2.4 Pipeline Embedment

No addendum.

2.5 Pipeline Design

No addendum.

2.6 Fitness for Purpose

No addendum.

2.7 Limits On Use

No addendum.

2.8 Water Industry Experience

No addendum.

3. PVC SYSTEM

3.1 Plain Wall and Sandwich Construction PVC Pipe

Gippsland Water approves the use of 3.0m long PVC pipe.

3.2 Fittings

No addendum.

3.3 Joints

Gippsland Water does not approve the use of solvent cement joints in reticulation sewers with the exception of maintenance hole drop pipes and property connection pipework.

3.4 Pipeline Embedment

No addendum.

3.5 Pipeline Design

No addendum.

3.6 Fitness for Purpose

No addendum.

3.7 Limits on use

No addendum.

3.8 Water Industry Experience

No addendum.

3.9 Profiled Wall PVC Pipe

Gippsland Water does not approve the use of PVC profile wall pipe (or Ultra Rib pipe).

3.10 Fittings

Gippsland Water does not approve the use of PVC profile wall pipe (or Ultra Rib pipe).

3.11 Joints

Gippsland Water does not approve the use of PVC profile wall pipe (or Ultra Rib pipe).

3.12 Pipeline Embedment

Gippsland Water does not approve the use of PVC profile wall pipe (or Ultra Rib pipe).

3.13 Pipeline Design

Gippsland Water does not approve the use of PVC profile wall pipe (or Ultra Rib pipe).

3.14 Fitness for Purpose

Gippsland Water does not approve the use of PVC profile wall pipe (or Ultra Rib pipe).

3.15 Limits on use

Gippsland Water does not approve the use of PVC profile wall pipe (or Ultra Rib pipe).

3.16 Water Industry Experience

Gippsland Water does not approve the use of PVC profile wall pipe (or Ultra Rib pipe).

4. PE PLAIN WALL SYSTEM

4.1 PE Plain Wall Pipe

No addendum.

4.2 Fittings

No addendum.

4.3 Joints

No addendum.

4.4 Pipeline Design

No addendum.

4.5 Fitness for Purpose

No addendum.

4.6 Limits on use

No addendum.

4.7 Water Industry Experience

No addendum.

5. GLASS REINFORCED PLASTIC SYSTEM GRP

5.1 Glass Reinforced Plastic Pipe

No addendum.

5.2 Fittings

No addendum.

5.3 Joints

No addendum.

5.4 Pipeline Design

No addendum.

5.5 Fitness for Purpose

No addendum.

5.6 Limits on use

No addendum.

5.7 Water Industry Experience

No addendum.

6. DUCTILE IRON SYSTEM

6.1 Ductile Iron Pipe

No addendum.

6.2 Fittings

No addendum.

6.3 Joints

No addendum.

6.4 Pipeline Design

No addendum.

6.5 Fitness for Purpose

No addendum.

6.6 Limits on use

No addendum.

6.7 Water Industry Experience

No addendum.

7. FIBRE REINFORCED CONCRETE

7.1 FRC Pipe

Gippsland Water does not approve the use of FRC pipe.

7.2 Fittings

Gippsland Water does not approve the use of FRC pipe.

7.3 Joints

Gippsland Water does not approve the use of FRC pipe.

7.4 Pipeline Design

Gippsland Water does not approve the use of FRC pipe.

7.5 Fitness for Purpose

Gippsland Water does not approve the use of FRC pipe.

7.6 Water Industry Experience

Gippsland Water does not approve the use of FRC pipe.

8. STEEL PIPE SYSTEM

8.1 Steel Pipe

No addendum.

8.2 Fittings

No addendum.

8.3 Joints

No addendum.

8.4 Pipeline Design

No addendum.

8.5 Corrosion Protection

Refer to Gippsland Water for specific cathodic protection requirements.

8.6 Fitness for Purpose

No addendum.

8.7 Water Industry experience

No addendum.

9. MAINTENANCE HOLE AND SHAFT SYSTEMS

9.1 MH and MS Systems

The use of non-concrete maintenance holes (MH) is subject to Gippsland Water's approval of the design and construction details.

Note 2 – Gippsland Water does not approve the use of concrete covers.

9.2 Precast Concrete MH System

Note 2 – Gippsland Water does not approve the use of galvanised step irons.

9.3 Maintenance Shafts

No addendum.

9.4 MH Tops

No addendum.

9.5 Sealing Strip for concrete MH Covers

No addendum.

9.6 Sealing Tape for external sealing of precast concrete shaft joints

No addendum.

9.7 Step Irons

Gippsland Water does not approve the use of galvanised step irons.

9.8 Ladders

Gippsland Water does not approve the use of galvanised ladders.

9.9 Masonry Fasteners

No addendum.

10. SURFACE FITTINGS FOR MAINTENANCE HOLES AND MAINTENANCE AND INSPECTION SHAFTS

10.1 Covers And Frames

The clear opening size stated is a minimum size.

10.2 Inspection and Lamphole Covers

No addendum.

11. JOINTING AND SEALING MATERIALS

11.1 Jointing Seals-Pipes and Precast Concrete Components

Gippsland Water only approves the use of styrene butadiene rubber (SBR) seals.

11.2 Flange Insertion Gaskets

Gippsland Water does not approve the use of natural rubber (NR) gaskets.

11.3 Solvent Cement and Priming Fluid (PVC)

No addendum.

11.4 Hydrophilic Rubber

No addendum.

12. OTHER PRODUCTS

12.1 Marker Tapes

No addendum.

12.2 Ventshafts-Educt

No addendum.

12.3 Ventshafts-Induct

No addendum.

13. CIVIL CONSTRUCTION PRODUCTS

13.1 Premixed Bagged Concrete

No addendum.

13.2 Geotextile

Refer to standard drawing SEW-102 (note 3) for minimum lap.

13.3 Compressible Membrane

No addendum.

13.4 Ancillary Cement Products

No addendum.

14. REFLUX VALVES AND MISCELLANEOUS PIPELINE FITTINGS

14.1 Metal Banded Flexible Couplings with Shear Band (AS 1646 Elastomer only)

No addendum.

14.2 Reflux Valve

No addendum.

14.3 Repair Clamps and Stainless Steel Oblique Branch (OB) Band (Sewer Tapping Bands)

No addendum.

PRODUCT ATLAS

No addendum.