

Water Symbols

For NetMaps, LiteSpatial (desktop), LiteSpatial Android and myWorld

[NetMaps](#)

[LiteSpatial Android](#)





[LiteSpatial \(desktop\)](#)

[myWorld](#)

myWorld



[Water](#) – composite layer see NetMaps symbols below for components with differences noted for this application where applicable. All assets listed may not be available in all applications. myWorld pipes and assets are colour coded to reflect their network use.

	Production	Non-potable water obtained from water source, such as a bore. From the Bore to the Treatment Plant.
	Transmission	Backbone of the network from the Treatment Plant to the Service Reservoir.
	Distribution	Network of pipes for delivery to the customer.
	Service	Service Connection from the Pipe in the street to the Service Point Location.

LiteSpatial Android






























[Water](#) – composite layer see NetMaps symbols below for components. All assets listed may not be available in all applications.

LiteSpatial (desktop)

[Water](#) – composite layer see NetMaps symbols below for components. All assets listed may not be available in all applications.

NetMaps

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Bore

Bores are displayed with identifying name or number

Bore Type

P	Production
M	Monitoring
L	Licensed Private

Observation Bore Types

O	Observation
I	Investigation

A surrounding Wellhead Protection Buffer can be placed in the metropolitan area and may vary from 100m to 500m radius.



Cathodic Protection

Cathodic Protection is for corrosion protection, using electrical charge, of steel pipes. Area of influence is shown for metropolitan area only.

Fittings are:

- Cathodic Anode (Fitting)
- Cathodic Interference Test Point (Fitting)
- Cathodic Polarisation Probe (Fitting)
- Cathodic Test Point (Fitting)
- Cathodic Transformer Rectifier (Fitting)
- Cathodic Cable



Chemical Dosing Plant

Usually found in smaller country towns for treating water, often groundwater



Dam

Details if available: Dam name, Top Water Level (TWL) and Capacity (CAP).



Dosing Point

- UVS Ultra violet sterilisation
- DOSE Chemical dosing point



Fittings

- DEAD Dead Plate
- PIGS Pig Station
- RRP Riparian Release Point
- AIP Air Injection Point



Field book and page numbers are shown if different from the pipe field book.



Gauging Station

Has flow control types:

- Natural
- Other
- Open Chanel Control
- Pipe Control
- Weir



Hydrant

- H Hydrant
- P Pillar Hydrant
- T Hydrant Tee



Field book and page numbers are shown if different from the pipe field book number.

■ ■ ■ ■ | KM Marker

Are placed on long country Main Pipes at right angles to the pipe with the distance noted.



Access Chamber or Pit

Allows access to underground pipe controls.

Field book and page numbers are shown if different from pipe field book.

Type is noted:

- MH Manhole
- SAP Service Access Point

- - - - Note

Along with the text of a note, there may have a boundary indicating a relevant area.



Meter

Displayed with relevant text and size if applicable.

- METER Meter
- MFM Magnetic Flow Meter
- MM Master Meter
- MICRO Micro Meter
- PITO Pito Meter
- PP Pressure Point
- LDMS Leak Detection Meter Site







Field book and page numbers are shown if different from the pipe field book number.

Pipe










Pipes have a size and material.

They may have a Field Book and page number or a Planset number.

The Networks and their associated assets are colour coded to reflect their use:

	Service
	Distribution
	Transmission
	Production (Raw/Saline/Non Potable)





















Lifecycle Status of:

NetMaps & LiteSpatial		myWorld	
Actual		Existing	
Dead		Abandoned	
Not in Use		Inactive	
Proposed		Proposed	
Quote		Removed	
		Under Construction	

Supply Type of:

Drinking Water
Grey Water
Process Water
Raw Water

Management Function of:

NetMaps and LiteSpatial		myWorld	
Pipe Type	Supply Type		
Bore Main	Non potable	BORE MAIN	Bore 
Bypass	Potable	BYPASS MAIN	Bypass 
Distribution Main	Potable	DISTRIBUTION MAIN	Connection 
			Discharge 
			Distribution 
			Fire Service 
			Hydrant Main 
			Manifold 
Non Potable Other	Non potable	NON POTABLE OTHER	Non Potable 
Offtake	Potable	OFFTAKE MAIN	Offtake 
Overflow	Non potable	OVERFLOW	Overflow 
Pressure Equaliser	Potable	PRESSURE EQUALIZER	Prelaid 
			Pressure Equalizer 
			Raw Water 
Reticulation	Potable	RETICULATION MAIN	Reticulation 
Saline	Non potable	SALINE MAIN	Saline 
Scour	Non potable	SCOUR	Scour 
Scour and Overflow	Non potable	SCOUR & OVERFLOW	Scour and Overflow 
			Siphon Main 
			Sprinkler Fire Service 

Trunk Main

Potable

TRUNK MAIN

Trunk

Private Pipes will show as: 

Some other Pipeline Details

Field book and page number if known

42265-145

Proposal; indicated by the P following the FB and page number or planset number

DM27-P

MWA planset number

MWA 12345

PWD planset number

PWD 12345

Water Corporation planset number

CK43

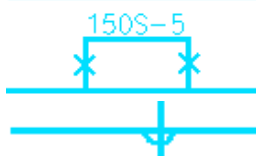
Alignment is shown only when pipe laid on non-standard alignment. That is other than 2.1 for retic mains and 4.5 for distribution mains

(3.6)

Change point; indicates where pipe details change

100AC ↓ 100P-12

Pipe Bypass



Pipe Overpass



Pump Station

The name and number of PS are displayed if available.

Types:

- PS Pump Station
- BS Booster Station



Sample Point

Water Sample Point Type:

- Dip
- Other
- Standard

Water Type:

- Distribution
- Raw
- Treated

Casing

Pipe Protection. This shows parallel to the pipe. These may show a size and material.

100CI SL

Type:

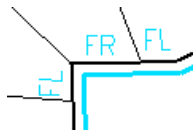
- ENC Encasement
- SL Sleeve

CONC ENC

Material:

- AC Asbestos Cement
- CI Cast Iron
- DI Ductile iron
- GWI Galvanised Wrought Iron
- RC Reinforced Concrete
- S Steel

Service Connection



Prelaid

A Pre-laid service shows the location of a service connection provided at the time of subdivision but is not guaranteed to be the actual location of the live service or meter.

A pre-laid service must use one of the direction types.

Direction types; indicates side of lot selected for meter position.

D	Deferred
FL	Fully Prelaid Left
FM	Fully Prelaid Front Middle
FR	Fully Prelaid Right
L	Left
R	Right

Ducts

A pipe laid to enable future installation of a service to a multiple residential/commercial lot.

Direction types, indicates side of lot the duct is laid followed by its size.

D	Deferred	<u>D 100</u>
L	Left	<u>L 80 R 80</u>
R	Right	<u>L 80 R 80</u>

NB are now recorded in myWorld as a casing

Non Standard Services may be either a short service or long service.

They may have no valves, one valve or two valves. They are labelled with a pipe size and material type followed by a purpose.

Field book and page numbers are shown if different from the pipe field book number.

Purposes:

DOMS	Domestic Service	—X— 100P DOMS
FHS	Fire Hydrant Service	—XX— 100S FHS
FS	Fire Service	—XX— 100S FS
MANI	Manifold Service	—E— 100CU MANI
NRS	Non Rated Service	— 50S NRS
SFS	Sprinkler Fire Service	—XX— 100CU SFS






myWorld connections



Introduces the new network type called Service. This new network is made up of two objects, the service connection pipe and a Service point Location. This allows you to see the recorded location of the water pipe and Service Point Location on a normal private lot.



The colour for service connections will change in instances that the assumed location of the connection is not available in our records. These pipes are displayed as a lighter blue and are always located in the middle of the lot by default.

The pipe types available in this network for connections are:

Connection	
Fire Service	
Manifold	
Prelaid	
Sprinkler Fire Service	

Service Point Location

The Service Point Location represents the assumed location of the property water meter on the lot. The Service Point is derived from the location description in Grange and will be displayed in the centre of the lot when the actual location is unknown.

The status is:  Active - Orange – Meter exists  Inactive – Grey – Meter removed

Stand Pipe

A Stand Pipe is typically an above the ground fitting used to fill water bearing trucks for various purposes, such as firefighting, watering, etc.

<u>Text</u>	<u>Types</u>	<u>Backflow device</u>
NO	Non Overhead	Yes
O	Overhead	No

Tanks-Reservoirs

Tank name, Top Water Level (TWL), Capacity (CAP), Floor level (FL) are displayed where supplied. Types of Tanks-Reservoirs include

A	Air Break Tank
C	Air Cushion Tower
E	Elevated Tank
O	One Way Surge Tank
R	Reservoir
S	Storage Tank
T	High level Tank

Treatment Plant

Water/Groundwater Treatment Plant

Water Supply Point

Private commercial water supply point. Usually associated with a master meter. Field book and page numbers are shown if different from the pipe field book.

Valve

Valve sizes are shown only if different to pipe size and followed by the type text. Field book and page numbers are shown if different from the pipe field book.

ALT	Altitude
BALL	Ball



BRONZE	Bronze gate
BV	Butterfly Valve
FP	Flushing Point
FW	Fullway, shown only on pipes < than 100mm diameter
MBV	Motorised butterfly valve
PRV	Pressure reducing valve
PSV	Pressure sustaining valve
R	Resilient seat
REG	Regulating valve
RV	Reflux valve
SV	Sluice valve



Fully operational valves will show as:

	Open	Text Displayed	Closed
If Type is - ALT, BRONZE, BV, FW, MBV, R or SV			
If Type is - PRV, PSV REG or RV			
If Type is - FP		FP	
If State is - Broken Open/Closed		BO/BC	
If State is - Temporarily Open/Closed		TO/TC	
If State is - Leaking Coupling		LC	
If State is - Leaking Gland		LG	
If State is - Cannot Locate		CL	
If State is - Spindle Problem		SP	
If State is - Tag Missing		TM	
If State is - Valve Buried		VB	





Close directions:	A	Anti-clockwise, closing normal		A
	C	Clockwise, closing		C

Zone Isolation Valves:

Type must be - BRONZE, BV, FW, MBV or SV

Condition must be - "Closed", symbol is



If State is –	“Fully Operational” symbol is		
If State is –	“Broken Open” symbol is		BO
If State is –	“Broken Closed” symbol is		BC
If State is –	“Temporarily Open” symbol is		TO


Non Control Valves (Fittings):

These are shown as valve size, if known, followed by the valve type.

Field book and page numbers are shown if different from the pipe field book.

DAV	Double Air Valve
MAV	Manual Air Valve
SAV	Single Air Valve
SC	Scour



	Operation Codes:	B	Prevents bfp/valve bypass
		D	Headworks, Notify Headworks foreman before operating
		E	Prevent environmental damage
		O	Prevents OS&H hazard
		P	Pressure main, DO NOT OPERATE
		S	Separates water types
		T	Prevents treatment bypass
		Z	Maintains zone isolation

Contact Service Delivery Branch (x3263) for further information.

Asset Boundaries

Seen as a dotted background to a site or asset. This is an internal reference link for more detailed asset information. It holds a Functional Location Number which is linked to SAP.

- W Storage Complex
- W Pipe Section - Pipe Sections are currently created only on Main Pipes not Retic Pipes
- W Control Valve Site
- W Bore Site



Warning Symbol

Alert - Investigate further!

This symbol will have text below the symbol to indicate the asset or issue.

Currently in the system are:

MANHOLE	Hazardous manhole
ELECTRICAL	Location of electrical interference on sections of steel pipe
<u>Valve-A</u>	Critical valve with operation code

Water Hotspot

Take care!! Coverage shows where the Water Corporation Assets are within 0.5m of Electrical or Gas underground assets. Currently only available in NetMaps and LiteSpatial



Revisions	
10 Mar 2009	Reviewed
18 Mar 2009	Pipe details updated. Gauging Station added.
11 Nov 2009	Reformatted
07 Jan 2011	Reviewed, updated, LiteSpatial plates added.
07 Oct 2011	Corrected valve wording
18 Feb 2013	Reviewed
19 Sep 2013	Added Water Ball Valve Type
26/11/2013	Reformatted and reviewed.
20/08/2015	Reviewed, reformatted and notes on myWorld added