

June 2008

BULLETIN

NO. 3

MOKOAN DIVERTERS PIPELINE



Produced by Goulburn-Murray Water

MOKOAN DIVERTERS OPERATIONAL PROCEDURE

An operational Procedure for Lake Mokoan Diverters was agreed in February and provides customers with further details on the delivery services they will receive from Goulburn-Murray Water (G-MW). This Procedure outlines how capacity shares and maximum licence rates will be used in times of peak demand to ensure customers receive equitable access to water.

Once complete the Mokoan Diverters pipeline and pump station will have an operating capacity of 24ML/day with potential to deliver the total licensed volume to diverters in 77 days. This is greater than the 100 day delivery capacity for irrigation areas across the Goulburn–Murray region.

Domestic and Stock Supply Arrangements

The Lake Mokoan Diverters' Operational Procedure also details the domestic and stock (D&S) supply arrangements for customers. The new system has the capacity to deliver all domestic and stock entitlements in 100 days, and will allow access 24 hours a day, seven days a week, 365 days a year.

The Lake Mokoan Diverters' Operational Procedure is in addition to G-MW's Customer Charter. A copy of the Operational Procedure is enclosed, and both documents are available from Diversions. If you have any questions or concerns please contact the project manager.

LAKE MOKOAN OPERATION SEASON 2008/2009

G-MW will continue use Lake Mokoan as an operational storage during the 2008/09 irrigation season. Water from the storage will help supply the irrigation and domestic and stock

demands of diverters in the Broken System.

In June 2009, at the end of the irrigation season, G-MW aims to have Lake Mokoan at approximately 8% of capacity. This is equivalent to the maximum volume held by the original Winton Swamps.

Lake Mokoan has fallen well below this level as a result of ongoing drought. If seasonal conditions permit, G-MW will harvest water into Lake Mokoan to meet the supply needs of the 2008/09 season, but still with the aim of ending the season at around 8%.

Without inflows, Lake Mokoan will dry out as evaporation and irrigation demands in the Broken System reduce volumes in storage.

IMPROVED SUPPLY FOR THOONA CUSTOMERS

Thoona and District water supply customers will have year round access and improved water quality through the construction of a more efficient, piped D&S system. The new system replaces the existing open channel and creek delivery system.

A more efficient delivery system means Thoona customers will receive the same supply through a reduced capacity share and a reduced delivery share.

The Mokoan Diverters' Pipeline Project includes funding for the Thoona project as a result of the capital saving achieved by reducing the Diverters Pipeline capacity and recognising the value of the water savings.

For more information visit the website www.lakemokoan.com
or contact the Project Manager on (03) 5833 5618



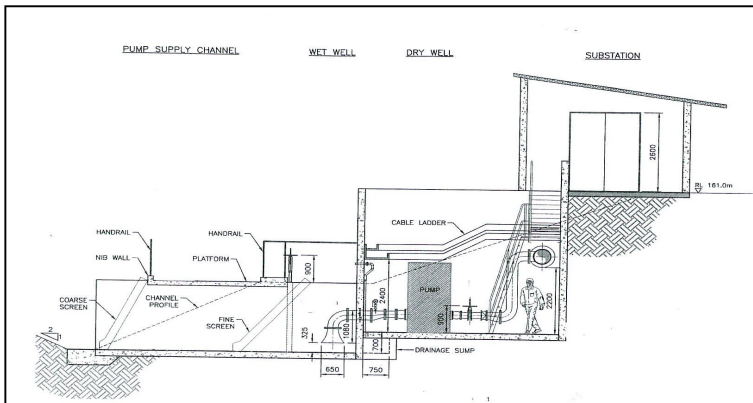
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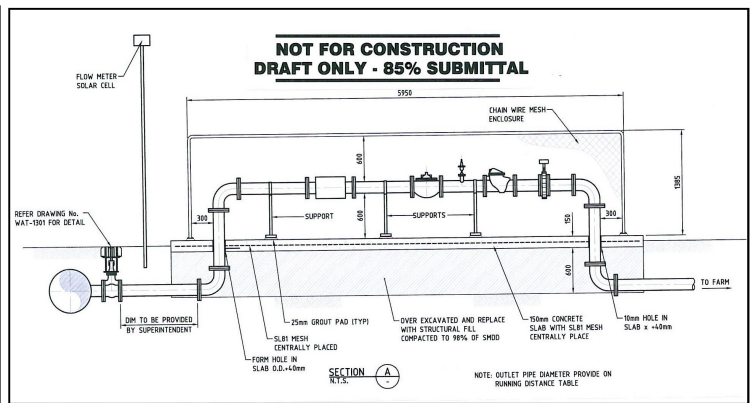
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DIVERTERS PUMP STATION GENERAL ARRANGEMENT



DIVERTERS DOMESTIC AND STOCK OUTLET DETAIL



The pump station will be located adjacent to the existing Mokoan outlet channel, 55 metres west of the embankment. The pumps station will draw water from the channel using a dry well arrangement. The pump station will be remotely controlled via the G-MW SCADA network which is capable of receiving instantaneous meter readings from irrigation diverters and controlling the pump station accordingly.

The pump station, shown above, consists of 3 x 165kW high flow pumps, 2 duty and 1 standby, as well as 6 x 11kW low flow pumps, 5 duty and 1 standby. The low flow pumps are capable of delivering all flow ranges from 0.2ML/day to 10ML/d. From 10ML/d the high flow pumps start and increase speed until reaching the maximum designed flow rate of 24ML/d

The outlet arrangement for the pipeline diverters is as shown above and will be similar in design for both domestic/stock customers and irrigation customers. All service points will comprise of an isolation valve at the main pipeline, a magnetic flow meter, pressure reducing valve, air release valve, check valve, and a butterfly valve. The check valve will act as the foot valve for the pump suction. The main isolation valve and butterfly valve isolate the entire outlet structure and allow removal and maintenance of the flow meter. Irrigation customers will have an additional solar panel and radio antenna for remote read and control configuration.

Irrigation diverters located at the storage will have a similar above ground meter located on the pump suction line.

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EXTENDED PROJECT TIMELINES

G-MW expects commissioning of the pipeline to take place in January 2009. This is later than initially anticipated but is direct result of a range of factors including design finalisation and tendering, staff availability, and the need to work through a range of associated heritage, power supply and fire suppression design issues, that must be addressed and resolved prior to construction.

The timelines detailed in this bulletin are still subject to favourable construction conditions and the availability of suitable contractors.

To ensure irrigation capability for the 2008/09 season we have committed to continuing existing delivery arrangements including the use of Lake Mokoan. We are also considering all possible means of expediting completion of key components of the system.

Updated Construction Timelines

- | | |
|-----------------------------|--------------------|
| • Award Pipe Supply Tenders | June 2008 |
| • Award Pump Tender | June 2008 |
| • Outlet Channel Deepening | July 2008 |
| • 75ML Storage Construction | August 2008 |
| • Pipeline Construction | September 2008 |
| • Pump Station Construction | September 2008 |
| • Pipeline Commissioning | Early January 2009 |

CFA FIRE FIGHTING REQUIREMENTS

The requirements of the Country Fire Authority are currently being assessed, in accordance with CFA guidelines, and in direct consultation with regional CFA headquarters, Wangaratta.

This will ensure that the CFA can continue to provide effective fire-fighting operations in the future Winton wetlands and surrounding area. The provision of access to water from the pipeline at the following locations is being considered.

- A hydrant at the Yacht Club
- A fill point at the current Chesney Vale Fire Station
- A hydrant at the cross lake spur branch
- Air and fire truck access to the 75ML storage
- A tap in point which will allow future connection to a tank at the intersection of Boggy Bridge rd and Winton North Road inside Lake Mokoan.

In addition to these points we are also confirming the need for emergency fire storage tanks connected to the pipeline at the following locations:

- The intersection between Snowy Lane and the embankment
- The eastern end of the Cross Lake Spur Line

It is expected that improved ready access to water for the purposes of fire fighting will be significantly increased from the current situation.

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ENVIRONMENTAL , HERITAGE AND CULTURAL MANAGEMENT PLANS

The Project team has developed management plans to ensure we identify and manage environmental and cultural issues associated with the Mokoan Dvertiers Pipeline and related works.

Cultural and Heritage Management Plan

A cultural heritage management plan has been developed for the Mokoan Diverters Pipeline Project. This plan identifies areas of cultural heritage significance and outlines how cultural heritage issues should be addressed throughout the construction process.

The Registered Aboriginal Party for this area has been involved in the development of this plan to ensure their specific concerns are addressed.

Environmental Management Plan

An Environmental Management Plan (EMP) has been developed for the project to meet the requirements of G-MW's Environmental Management System.

The EMP identifies; the activities related to the project works, who is responsible for environmental management, environmental risks, control measures and procedures to ensure sound environmental management.

NEW PROJECT CONTACT

With the project now nearing the end of the design phase and moving into tendering and construction, the project will now progress under the direction of Stuart Nield, Senior Project Manager.

Jeremy Nolan and Sarah Drowley have moved on to other projects, but would like to thank all scheme customers for their patience during this major process and will certainly follow what should be a successful final project outcome.

CONTACT INFORMATION

Pipeline Project Enquiries

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CONVERSIONS

1ML = 1,000,000L

1GL = 1,000ML or 1,000,000,000L

1kW = 1.34HP

AHD = Australian Height Datum

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