

4.3 DRAINAGE & STORMWATER HARVESTING SYSTEM, GLEN WAVERLEY GOLF COURSE, GLEN WAVERLEY

(CF2008104: RA)

Ward: Glen Waverley

Responsible Director: Peter Aumann

RECOMMENDATION

That

1. *Council accepts the tender of Jaydo Constructions Pty Ltd to undertake the construction of a Drainage and Stormwater Harvesting System within the Glen Waverley Golf Course, Glen Waverley for the GST inclusive sum of \$254,984.40.*
2. *The anticipated project expenditure of \$300,000.00 (GST exclusive) for the construction, design and supervision be noted.*
3. *The contract agreement be signed and sealed.*

INTRODUCTION

This report seeks Councils acceptance of a tender for the construction of a stormwater diversion drain at the Glen Waverley Golf Course.

BACKGROUND`

As part of Council's program to reduce the use of potable water at sports facilities, an investigation of the stormwater availability on or near the Glen Waverley Golf Course was undertaken as there is a large stormwater drain located across the middle of the course discharging into Dandenong Creek.

The catchment area of this drain is 1.6km² of residential area, and has an average annual flow of 640 megalitres(ML) of stormwater. The golf course storage dam, which is used to irrigate most of the golf course, is located near this drain that could be re-aligned to discharge some of the storm flows into the dam. This project aims to divert 20% of the average run off, equivalent to 128ML per year, into the dam to be used for irrigation and the remaining diverted through a primary stormwater treatment facility and discharged into the Dandenong Creek. During periods of very heavy rainfall, major flows of stormwater will discharge direct to Dandenong Creek via the existing outfall.

There are significant environmental, economic and social benefits to result from the proposed project, including:

- Annual substitution of around 30ML of potable water supply currently used to irrigate the golf course;
- Potable water cost savings of approximately \$25,000 per annum;
- The security to use the diverted water for all areas of the course whether under water restrictions or exemptions; and
- The proposed treatment and diversion will reduce pollutants such as Nitrogen, Suspended Solids and Phosphorus from entering the Dandenong Creek. Most significantly, Nitrogen reduction of up to 644 kg per year is projected.

Contributing funding for this stormwater harvesting system and treatment of the stormwater has been successful from Melbourne Water (\$90,000) and the Federal Government's Community Water Grants Program (\$224,000).

The second part of this project (Stage 2) is to upgrade the irrigation on the course, to ensure that the irrigation water is being applied in the most efficient manner practicable. Funding for this work is included in the Federal Government's Community Water Grant. The work is scheduled to be undertaken after the drainage works.

DISCUSSION

Tenders were advertised on Saturday 1 December, with tenders closing on Wednesday 19 December 2007.

Tenders were invited to undertake the proposed works within the golf course and 5 submissions were received from:

Name of Tenderer

Comar Constructions Pty Ltd
Entracon Civil Pty Ltd
Jaydo Constructions Pty Ltd
Pecunia Constructions Pty Ltd
Tarus Projects Pty Ltd

with the prices ranging from \$254,984.40 to \$318,062.80 (GST inclusive)

The tenders were evaluated by a tender panel on the following Criteria:

1. O.H & S compliance;
2. Contractor's previous experience and demonstrated quality of work for similar works including liaison with user groups;
3. Price;
4. Tender conformance;
5. Construction period;
6. Resources available for the project; and
7. Methodology to be used to complete the works

The tender panel comprised:

Kim Hanisch, Manager Infrastructure Strategy
Robert Ayton, Asset Management Engineer
Natalie Atkins, Environmental Management Co-ordinator

At the completion of the evaluation, the tender submitted by Jaydo Constructions Pty Ltd (Jaydo), was ranked highest based on the combined price and non-price criteria. They also had the lowest tender submission. Jaydo are known to Council and has undertaken the construction of a number of major drainage projects across the municipality and are capable of completing these works to the standard and quality required.

FINANCIAL

The total project costs are estimated to be:

Tender amount (GST inclusive)	\$254,984.40
GST amount	\$23,180.40
Tender amount (GST exclusive)	\$231,804.00
Survey and Design Fees	\$29,350.00
Landscaping (to be undertaken by Council)	\$20,000.00
Contingency amount	\$18,846.00
Total Expected Project Cost (GST Exclusive)	\$300,000.00

Funding for the stormwater harvesting projects is available from:

Income		Expenditure	
Funding Source	Total Funding Allocation	Stormwater Harvesting 07/08 *	Irrigation Upgrade 08/09
Council 2007/08 Allocated Budget	\$150,000	\$150,000	\$0
Council 2008/09 Proposed Budget	\$100,000	\$0	\$100,000
State Government – Melbourne Water 2007/08	\$90,000	\$90,000	\$0
Federal Government Community Water Grant 2007/08	\$224,000	\$60,000	\$164,000
Total	\$564,000	\$300,000	\$264,000

* The subject of this report

IMPLEMENTATION

Upon Council awarding the Contract, the necessary documentation will be executed and the works undertaken.

Works are programmed to commence in March 2008 and be completed within six (6) weeks.

The works are located near the 10th hole and this hole will need to be closed during the laying of the pipes. To retain the 18 holes on the course the 11th hole will be changed to provide two shorter holes.

The project has undergone extensive consultation with the golf course managers and Glen Waverley Golf Club. Notices will be placed around the course to inform patrons of the works.

A condition of the Commonwealth Government Community Water Grant Funding is community engagement and the following community engagement mediums are currently being considered:

- Publicity via means of:
 - o Monash Bulletin;
 - o Clayton Festival (stall);
 - o Website.
- Signage on the course;

- Education program hosted by Mount View Primary School;
- Open day for industry and community.

CONCLUSION

It is considered that the tender submission from Jaydo Construction Pty Ltd is the lowest and is considered to offer Council the best value.

