

Longreach Regional Council

96A Eagle Street
Longreach QLD 4730



Expression of Interest Information

Job Name:	Longreach Regional Council Water Strategy		
Project File:	140016		
Closing:	Time:	2.00pm	
	Date:	Friday 9 September 2016	
	Location:	Longreach Regional Council	
		www.lgtenderbox.com.au	

AUGUST 2016

Version History

Date	Name	Position	Action required (Review/Endorse/Approve)
17/08/16	Roger Naidoo	Director Infrastructure Services	Approve

Prepared by Roger Naidoo
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Status Expression of Interest
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Contact for enquiries and proposed changes

If you have any questions regarding this document or if you have a suggestion for improvements, please contact:

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1.0 WORK TYPE AND LOCATION

Longreach Regional Council invites Expressions of Interest (EOI) from suitably qualified consultants, to undertake a feasibility study/investigation into options for sustainable water security and availability in the towns of Longreach, Ilfracombe, Isisford, and Yaraka.

The desired outcome is to ensure increased availability of potable water for domestic use, to allow prolonged beautification of the towns open spaces, parks/gardens, and to allow maintenance/greening of private lawns/gardens. Increased storage and improved retention of water within exposed storages such as dams are two possible mechanisms for this outcome.

The Longreach Region is located in Central Western Queensland, situated approximately 700 kilometres from the coast, west of Rockhampton. The towns of Longreach and Ilfracombe are located on the Landsborough Highway, with Isisford 90km south of Ilfracombe on the banks of the Barcoo River, Yaraka being approximately another 100km south west of Isisford.

2.0 EXISTING WATER SUPPLY SCHEMES

Each of the four townships included within this study is supplied with water through the use of separate water schemes.

Longreach's main water source is the nearby Thomson River. River water is pumped directly from the town weir to a water treatment plant (WTP) and then distributed throughout the town's reticulation system. Within Longreach there are also two water storage reservoirs, these include a 8,800kL ground level tank and a 500kL Elevated reservoir.

Ilfracombe townships water is supplied via two dams. Shannon dam (96ML) located to the north and Murray McMillan dam (381ML) located to the south of Ilfracombe, the dams being fed by Minor Creek and Collumpton Creek respectively. Water from these dams are then treated and distributed. The Ilfracombe scheme also incorporates a 228kL elevated reservoir and ground level reservoir.

Isisford's water supply is sourced from the nearby Barcoo River and Isisford dam, the dam itself is fed by and stores water from the Barcoo. The river water is pumped to the local WTP and distributed. Isisford's WTP compound houses 5 storage tanks, these including 3 195kL raw water ground level reservoirs and 2 clear water reservoirs, one a 195kL ground level and the other a 120kL elevated reservoir.

Yaraka's water supply scheme comprises of a town bore and two dams, south of the town, fed by Kiama Creek. The water quality of the town bore however limits its use. While potable the bore water is currently outside the Australian Drinking Water Guidelines (ADWG) aesthetic guidelines for chloride and sodium. Yaraka's existing distribution system supplies treated and untreated water throughout the town via two separate mains. Three storage tanks are located within the WTP's compound, a 45kL ground level reservoir holding water from the town bore prior to treatment, a 25kL elevated raw water reservoir and a 25kL elevated reservoir of treated water, gravity feeding the towns distribution system.

3.0 FEASIBILITY STUDY REQUIREMENTS

The consultant chosen to undertake the feasibility study as described above, is expected to propose and assess the viability of water security options which will increase/improve the capacity and efficiency of the current water storage. This process should include a review of existing reports and documentation, a search for reports from government departments that will be relevant. The consultant shall also develop and demonstrate the positive and negative effects associated with all proposed water security options. At a minimum the following options for each township describe below shall be considered.

Longreach:

- Raise the levels of the town weirs
- Construct a new off-stream storage area (dam)
- Construct a new bore to provide an alternative potable water source

Ilfracombe

- Investigate the possibility of harvesting water from Gin Creek
- Confirm the harvest potential of Collumpton Creek
- Explore evaporation reduction devices for town dams

Isisford

- Investigate increases to storage capacity (e.g. enlarge town dams)
- Explore evaporation reduction devices for town dams

Yaraka

- Investigate the possibility of harvesting water from nearby waterways
- Investigate increases to storage capacity (e.g. enlarge town dams)
- Explore evaporation reduction devices for town dams

The successful Consultant must be able to identify and highlight the legislative and engineering constraints (if any) required to achieve the desired increase in water security and availability.

4.0 MILESTONES

The following list denotes project milestones suggested by Council.

- Workshop proposed/suggested options with council staff
- Hold a Community Consultation Meeting in each town and draw on local knowledge
- Present a draft report to Council
- Present further drafts to Council as required, and then to the Community
- Finalise Community comments
- Present to Council for adoption.

5.0 CONFLICTS OF INTEREST

All parties submitting an EOI as a result of this document must declare any potential conflicts of interest, resulting from their participation in this process to date.

6.0 EXPRESSIONS CLOSE

Submission of EOIs shall close at 2:00 pm on Friday 9 September 2016.
Expressions must be submitted via www.lgtenderbox.com.au before closing time.
Expressions by facsimile or email will not be accepted.