
16.0 RECOMMENDATIONS

It is recommended that Council:

1. Confirm and adopt this report as a strategy to deal with the sourcing problems related to the existing supply and undertake the following actions:
 - a. Confirm that the existing diversion of 17ML/d from Waterpark Creek can be augmented to 35ML/d by the diversion of an additional 18ML/d from Sandy Creek;
 - b. Based on the results of this investigation and with regard to the findings of the Community Reference Group:
 - i. confirm 100L/s as the minimum environmental flow to be maintained in relation to diversions of flow from Sandy Creek, and
 - ii. subject to a clearly identified need for further investigation confirm the existing minimum environmental flow of 50L/s for Waterpark Creek as the minimum environmental flow for all future diversions from this Creek;
 - c. Adopt the safe yield as the basis for water supply planning and construction;
 - d. Prepare a report assessing the necessary increases required in water charges for each class of connections within the Capricorn Coast Water Supply;
 - e. Undertake the planning and construction of the Capricorn Coast's water supply on the basis that the adopted yield exceeds the consumption by at least 25 percent and preferably on the basis of a 10 year planning horizon;
 - f. Undertake further discussions regionally and with the State Government in terms of future water supply needs from the Fitzroy River including the availability, cost and conditions applying to the supply of 10,000 to 15,000ML/a of 'high' priority water from the Fitzroy River in order to meet the long term needs of the Capricorn Coast;
 - g. Based on the safe yield able to be obtained from the Waterpark Creek and Sandy Creek system, augment the existing Waterpark Creek supply system by developing the Sandy Creek source including construction of a further stage or stages of Kelly Offstream Storage and determine the timing and supply volume required from the Fitzroy River;
 - h. Investigate and confirm funding sources for the construction of a pipeline from the Fitzroy River and finalise agreement with Rockhampton City Council for an initial supply of water from the Fitzroy River; and
 - i. Proceed with the selection of the most appropriate pipeline route and undertake the construction of a pipeline from the Fitzroy River;
2. Forward copies of the report to relevant State Government Departments for approval and funding consideration.

References

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- [2-9] Capricorn Coast 2500ML Offstream Storage Dam Submission to Water Infrastructure Task Force, Prepared by Kinhill Cameron McNamara, August 1996.
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- [8-7] *Desalination: a viable resource*. Review of Desalination possibilities for Western Australia. Water Corporation, September, 2000.
- [8-8] Crossley, I.A. (1983), *Desalination by Reverse Osmosis* in *Desalination Technology: Developments and Practice*, Edited by Andrew Porteous, The Open University, Walton Hall, Milton Keynes, UK, Applied Science publishers, London and New York, 1983.
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- [8-10] *Water purification – Part 2: User requirements/technical specifications*, Industry survey Joint Project 2059 – Phase 3, Australian Defence Force, Canberra, Australia. Oct 2001;1(2):1-52.
- [8-11] Smith, B. R and Swinton, E.A. (1988), *Desalination costs in Australia: A survey of operating plants*, Australian Water Resources Council, Water Management Series No: 10, Department of Primary Industries and Energy.