RECOVERY TEAM ANNUAL REPORT THREATENED SPECIES AND/OR COMMUNITIES RECOVERY TEAM			
Recovery Team		THROMBOLITE (STROMATOLITE-LIKE MICROBIOLITE) COMMUNITY OF A COASTAL BRACKISH LAKE ( <b>LAKE</b> <b>CLIFTON</b> ) RECOVERY TEAM	
Reporting Period		Calendar year 2010	
Current membership			
Member			Representing
Chair	Craig Oljenik		Nature Program Coordinator, DEC Swan Region
	Jill Pryde		DEC Species & Communities Branch
	Jim Lane		DEC Science Division
	Alan Wright		Ranger, Yalgorup National Park
Dr Brenton Knott			University of Western Australia
Fiona O'Connor			Coordinator, Lake Clifton Landcare Group
Adam Harbeck/Natal O'Malley		lie Lees proxy for Jane	City of Mandurah
Amanda Willmott/Jar		ne O'Malley	Peel-Harvey Catchment Council
Anthony Barr			CSIRO (corresponding member)
Dr Matt Forbes			DEC Hydrologist
Dates meetings were held		No formal meetings were held. In 2010	
One to two paragraph summary of achievements suitable for <i>WATSNU</i>		Summary The health of the Lake Clifton thrombolites appears to be in decline. In 2010 the lowest water levels were recorded at Lake Clifton (Lane <i>et al</i> , 2011) and data collected by DEC (and its predecessors) over a 30 year period under SW wetlands monitoring program, listed Lake Clifton as a wetland of interest or concern. The trend of increasing salinities in Lake Clifton continues to rise with a record high level in November of 2010 at 62 ppt. Key points summarized in a review conducted by Nobel (2010) indicated that: The thrombolite-forming cyanobacteria Scytonema sp. is no longer found in Lake Clifton, and this is either due to being out-competed by other algal species due to environmental changes such as increased salinity, nutrients or both; Wetlands can be classified according to their hydrogeological connectedness to the surrounding aquifer; Evaporation and precipitation are the main controls on coastal wetland salinisation, and evapoconcentration can occur in areas of rainfall deficit; The use of ionic ratios can help to identify the sources and sinks of water within coastal wetlands	

Publications:

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Nobel Craig. (2010). The effects of surface water levels and salinity on groundwater movement between Lake Clifton and its neighbouring wetlands, Western Australia. Research BSc (Hons) Project SCIE4501- 4504 Faculty of Natural and Agricultural Sciences. The University of Western Australia. Supervisors: Dr. Ryan Vogwill, Dr. Ursula Salmon, Dr. Andrew Rate.

Lane, J.A.K., Clarke, A.G. and Winchcombe, Y.C. (2011) South West wetlands monitoring program report 1977-2010. A report to the WA. A report to the Department of Environment and Conservation.