



DIRECTOR SHIRE SERVICES REPORT

14th February 2006

DSS1 HAT HEAD SEWERAGE
FILE: 217 PGA

SUMMARY:

Reporting on the operation and maintenance of the Hat Head sewerage system.



DESCRIPTION:

This report updates the previous reports regarding the operation and maintenance of the Hat Head Sewerage Scheme.

Sewerage Treatment Plant

Process Engineer, Brian Lam, from United Kilpatrick Green (UKG) is providing direct on-site support to operators and the Sewerage Treatment plant. The focus of the current Process Proving Period from November to January is to demonstrate that all identified plant, operational and equipment problems affecting licence effluent quality have been rectified during the Christmas peak loading period. Brian Lam is still onsite.

Hunter Water Australia had also been engaged to carry out an independent audit of the Sewerage Treatment Plant's Operation and the report was received on the 9 December 2005.

Outstanding items that need to be addressed

- A comprehensive outstanding items list has been prepared and a meeting with the Department of Commerce, UKG and Council is scheduled for 7 February 2006 to discuss handover.

Sewerage Pumping Station

One pot failure resulted in low vacuum in the system, but no major failures over the holiday period. A noise consultant has been engaged to look at the Pump Station building.

On the 17 January 2006 an independent audit was undertaken by "Flygt" for life cycle costing on the transfer pumps and a report is yet to be received.

EPA Licence Compliance

Results have been assessed to the 100th percentile of the Licence operating criteria and are shown below:

	O & G	PH	TN	TP	F Coli	NH3-N	TSS	BOD
28.12.2005	<2	7.0	8.09	0.16	-	1.64	1	-
11.1.2006	<2	7.3	8.52	0.25	0	0.89	1	<2
100% ILE	6	6.5-8.5	20	1	600	5	30	20

Results for compliance sampling taken on the 28 December 2005 and 11 January 2006 indicate the plant is still responding favourably to the new method of operation and resulting in no compliance failures for December and early January.

REPORT IMPLICATIONS

- ***Environmental Implications***

When completed and running efficiently the sewerage system will improve the environment of Hat Head.

- ***Social Implications***

The moratorium on future development in Hat Head under DCP37 continues until the sewerage system is fully functional.

Sustainable Development Services have been asked to pursue unconnected properties.

- ***Economic (Financial) Implications***

There are no economic implications as all costs are borne by the contractors.

- ***Policy or Statutory Implications***

There are no policy or statutory implications from the following recommendations

- ***Director's Review***

Improvements to the system have occurred and will continue to improve the sewerage system to a satisfactory level.

RECOMMENDATION:

That the information be noted.

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K J Finnie
DIRECTOR SHIRE SERVICES