

Memorandum

To The Hearing Panel – APP-1994001032.01

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From Tabitha Manderson

Office Palmerston North Office

Date 14 October 2016

File

Subject Information regarding Affco wastewater treatment ponds

As outlined in my planning evidence, I attached a memorandum from Rex Corlett whose advice I sought regarding the practicalities of relining the existing wastewater treatment ponds. I had asked the applicant (informally) if dimensions of the various treatment ponds were available to assist with providing an opinion about rough order of costs for relining the ponds.

This information was provided to me on 10th October by Peter Hill and a further refinement on 11th October. I then passed this information on to Rex Corlett who was able to complete a further memorandum (attached and dated 12th) looking at potential costs.

This information does not alter my overall recommendations, but responses from the applicant and submitters may help to refine my opinion. I would talk to this and answer any questions from the panel during the hearing.

I consider that this information would be of interest to the parties involved in the hearing. I consider it would assist with the panel's decision making if this information is able to be circulated prior to the hearing to allow the parties to comment on it.

I therefore request that through the panel that this information is able to be passed on to all the parties.

Tabitha Manderson

Senior Resource Management Planner

Table of pond dimensions provided by Peter Hill via email 11th October 2016

	Solids Pond	Anaerobic Pond	Aerobic Pond	Storage Pond 1	Storage Pond 2	Total
Surface Area AFFCO (m ²)	4,900	10,550	18,480	9,100	9,100	52,080
Surface Area van Oostrom (m ²)	4,150	10,000	17,000	10,000	10,000	51,150
Max Depth AFFCO (m)	4.5	4.5	2.0	4.5	4.5	-
Max Depth van Oostrom (m)	3.6	4.4	3.0	4.4	4.4	-
Full Volume AFFCO (m ³)	22,068	42,500	28,200	28,800	28,800	150,368
Full Volume van Oostrom (m ³)	10,000	32,000	44,000	32,000	32,000	150,000
Reserve Storage cited in AEE (section 5.2)			6,900	57,600		64,500