

Please Quote File: REG.014969.01, ACT.142813 MLAK:MEVA

19 June 2020

Kaipara District Council Private Bag 1001 Dargaville 0340

Sent via email to: <u>dmugutso@kaipara.govt.nz</u> <u>barmstrong@kaipara.govt.nz</u> <u>cpaniora@kaipara.govt.nz</u>

Dear Sir/Madam

MONITORING REPORT FOR RESOURCE CONSENT – MANGAWHAI WASTEWATER TREATMENT PLANT

An officer of the Northland Regional Council inspected the above wastewater treatment plant on 2 June 2020 to assess compliance with resource consents AUT.014969.01.02 and AUT.014969.04.02.

The monitoring inspection (report attached) assessed the following:

- Disinfection;
- Land application system; and
- Data supply.

The results indicate full compliance with the June 2020 monitoring inspection.

An invoice which covers council's travel, fieldwork and administration costs for the inspection will follow shortly.

Please do not hesitate to contact me if you have any queries regarding the monitoring report.

Yours sincerely

Melissa Hudson Environmental Monitoring Officer E-mail: <u>melissah@nrc.govt.nz</u>

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Private Bag 9021, Whangārei 0148



Condition 2	Compliant	Reason	
The quantity of wastewater received at the treatment plant shall not exceed 5,500 cubic metres in any 24-hour period, as measured between 9.00 a.m. on one day and 9.00 a.m. on the following day. For compliance purposes, this condition shall be monitored in accordance with Schedule 1.	Full compliance	The October 2019 – March 2020 quarterly reports showed that wastewater received at the treatment plant is well within the consented limits.	
Condition 4	Compliant	Reason	
Treated effluent quality shall be monitored in accordance with Schedule 2. The results from the analysis of samples collected in accordance with Schedule 2 shall be no greater than the performance requirements listed in Table 1 .	Full compliance	Self-monitoring is being undertaken in accordance with consent requirements.	
Condition 7	Compliant	Reason	
 The outside edge of any spray irrigation arc shall not be within the following buffer areas: (a) All land within 20 metres of any water body, as defined by the Resource Management Act 1991; and (b) All land within 30 metres of the legal boundary of the properties listed in Table 2 and any other adjacent legal property except for Lot 3 DP 209183 (the "bush block"); and (c) All land within 50 metres of any dwelling. In addition to the above buffer areas, no treated effluent shall be spray irrigated to land that has a fall greater than 3 metres over any 10 metres measured horizontally. 	Full compliance		
Condition 9	Compliant	Reason	
Notwithstanding Condition 8, the instantaneous irrigation rate shall not result in any overland flow of treated effluent beyond the irrigation area into any buffer area, as defined by Condition 7.	Full compliance	No ponding or run-off observed during the time of inspection.	
Condition 10	Compliant	Reason	
A grab sample(s) of the treated effluent from the storage dam shall be collected and analysed in accordance with Schedule 3 from a point adjacent to where it is drawn into the irrigation system.	Full compliance	E.coli concentration levels are well within trigger levels. Table 2 shows NRC sample results collected at the time of inspection.	



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Condition 13	Compliant	Reason	
To enable the collection of treated effluent samples prior to it being irrigated to land, the Consent Holder shall provide and maintain easy and safe access to a sampling point either adjacent to where the treated effluent is taken from the dam for irrigation or at some other point prior to the treated effluent actually entering the spray irrigation system.	Full compliance		
Condition 14	Compliant	Reason	
For each day that the irrigation system is operating, the Consent Holder shall keep a written log of the volume of treated effluent discharged to land and the area, in hectares, over which it was irrigated. A copy of these records shall be reported in accordance with Schedule 4. These records shall be used to monitor compliance with Condition 8 of this consent.	Full compliance	Irrigated volume records are recorded and reported in accordance with consent requirements.	
Condition 26	Compliant	Reason	
The Consent Holder's operations shall not give rise to any discharge of contaminants, at or beyond the "Wastewater Treatment Plant Odour Boundary", which is deemed by a suitably trained and experienced Enforcement Officer of the Regional Council to be noxious, dangerous, offensive or objectionable to such an extent that it has, or is likely to have, an adverse effect on the environment.	Full compliance	No odour detected beyond the property boundary at the time of inspection.	
Condition 29	Compliant	Reason	
The Consent Holder's operations shall not give rise to any discharge of contaminants, at or beyond the "Irrigation Area Odour Boundary", which is deemed by a suitably trained and experienced Enforcement Officer of the Regional Council to be noxious, dangerous, offensive or objectionable to such an extent that it has, or is likely to have, an adverse effect on the environment.	Full compliance	No odour was detected at the time of inspection. Council have received ongoing odour complaints relating to the operation of the irrigation farm but have not yet been verified by Council therefore 'Odour Diaries' were given to the residents of the properties bordering the irrigation farm to track odour they may detect.	



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Table 1: Treated Effluent Quality

Parameter	Units	Performance Requirements			
		Median ^a	Average ^b	90 th percentile ^c	
Group A Parameters (weekly sampling)					
E. coli	MPN	10	-	100	
Group B Parameters (15 day sampling)					
Total Dissolved Solids	mg / L	-	500	-	
Total Nitrogen	mg / L	-	30	-	
Phosphorous	mg / L	-	15	-	
Total Suspended Solids	mg / L	-	10	-	
Carbonaceous Biochemical Oxygen Demand	mg / L	-	10	-	

"The Consent Holder shall notify the Regional Council within five days of receiving the results of the sample analysis if any performance requirement specified in Table 1 is exceeded."

Table 2. NRC results from day of site inspection – 2 June 2020

	109894	109895	
Determinands	Mangawhai community wastewater treated effluent at irrigation dam	Mangawhai community wastewater treated effluent at plant effluent	
Chlorine (g/m3)	<0.1	-	
Escherichia coli (MPN/100ml)	19	<1	
Total Coliforms (MPN/100ml)	1200	<1	



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