Monday, 15 July 2024

Te Hui o Te Kaunihera ā-Rohe o Heretaunga
Hastings District Council
HDC : Tangata Whenua Wastewater Joint Committee Meeting

Kaupapataka

Attachments Under Separate Cover

Te Rā Hui: Meeting date:	**Monday, 15 July 2024**
Te Wā: Time:	**1.00pm**
Te Wāhi: Venue:	**Council Chamber** **Ground Floor** **Civic Administration Building** **Lyndon Road East** **Hastings**

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TE KAUNIHERA Ā-ROHE O HERETAUNGA

Hastings Wastewater Consent No. CD130214W Trends, Technology, Discharge, Environmental and Monitoring Review Report

July 2024 **Ref: 310003259**

PREPARED FOR:
Hastings District Council

PREPARED BY:
Stantec New Zealand

Stantec

Revision schedule

Rev No	Date	Description	Prepared by	Checked by	Reviewed by	Approved by
v1	17/02/2023	Initial outline draft	JG, AD	JB	-	
v2	06/04/2023	Initial outline draft for client review	AD	JG	JB	
v3	22/01/2024	Draft for internal detailed review	JG	-	-	
v4	31/01/2024	Draft for HDC and external (GEM) peer review	JG	JG	SB	ML
v5	06/05/2024	Draft for internal review, incorporating changes to address feedback from GEM peer review	JG	JG		
v6	13/05/2024	Final Draft for HDC and external peer review	JG	JG	JB	IR
v7	11/07/2024	Final Draft for HDC-TWWWJC	JG	JG	GR	IR

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Project manager	Project technical lead
Ilze Rautenbach	Grant Russell

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Executive summary

A Review of the discharge consent for East Clive Wastewater Treatment Plant (the WWTP) has been completed by a team of technical specialists from Stantec on behalf of the Hastings District Council (HDC), to satisfy Condition 27 of the resource consent (AUTH-120712-01) held by HDC to discharge treated wastewater into Hawke Bay via an offshore outfall in East Clive, Hastings. Condition 27 requires a Trends, Technology, Discharge, Environmental and Monitoring Review Report (the 'Review Report') to be completed every nine years for the duration of the consent term.

The bulk of the Review Report content was developed between January 2023 and January 2024, with subsequent peer reviews and revisions undertaken to May 2024. The Review Report offers a very deep and broad insight into the operations of the Hastings Wastewater Scheme, taking a 'big picture' view to understand the changes that have occurred over the past nine years since the consent was issued in 2014, and the changes to be considered for the next review period (to 2032) and beyond. The resulting output was a lengthy and highly detailed analysis.

For reference, a conceptual diagram of the East Clive WWTP and its treatment processes is attached as Figure 1 below. The incoming wastewater (influent), the WWTP treatment processes, and the outgoing discharges of final combined treated wastewater via the offshore outfall are all discussed in detail in Section 1 of the Review Report.
The wastewater network comprises two systems which connect to the East Clive WWTP as two separate waste streams:

1. **Domestic and Non-separable Industrial wastewater system (DNSI)** – collects wastewater from residential and commercial properties, and some Permitted industrial / trade waste wastewater.
2. **Separable Industrial** / trade waste wastewater system – collects 'Controlled wastewater' from selected industrial sites.

The separate streams are treated separately at the East Clive WWTP site before being combined for discharge to the offshore outfall.

The key treatment units for the Domestic Non-Separable Industrial (DNSI) waste stream at the WWTP are the Biological Trickling Filters (BTFs). The combination of the BTFs and the Rakahore Channel was a first of its kind in Aotearoa New Zealand and internationally, and similar BTF plants are now at Napier, Gisborne and Greymouth. The WWTP has received national accolades and international attention for its innovative use of biological treatment and incorporation of cultural values into the design and operation.