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By email: Amanda.OBrien@gw.govt.nz

WGN970255 [34837] – Paraparaumu WWTP – Discharge to storage basin

Discharge wastewater to land (being an unlined storage area) within the Paraparaumu WWTP site, with minor leakage to ground, for flows that exceed the plant capacity.

WGN970255 [34833] – Paraparaumu WWTP – Discharge to air

Discharge to air from all facilities at the Paraparaumu WWTP (within the Paraparaumu WWTP site).

WGN970255 [2565] – Paraparaumu WWTP – Discharge to Mazengarb Drain

Discharge of tertiary treated wastewater from the Paraparaumu WWTP to the Mazengarb Drain at a rate of up to 18,600 m³/day, seven days / week, 52 weeks / year (within the Paraparaumu WWTP site).

WGN030149 [22566] – Paraparaumu WWTP – Overflow basin

To discharge screened, dilute wastewater as overflow from the overflow basin at the Paraparaumu WWTP to the Mazengarb Drain.

WGN130218 [32196] – Paraparaumu WWTP – Sludge drying

To discharge to air from the operation and maintenance of a boiler and biofilter associated with the sludge handling process.

WGN040098 [34794] – Paraparaumu WWTP – Sludge lagoons

To discharge contaminants to land from a contaminated site, those discharges being emanations arising from residual sludge in the decommissioned Paraparaumu Wastewater Treatment Plant sludge lagoons.

Quarterly Report to end of December 2023 (Q2, FY2024) for Paraparaumu Wastewater Treatment Plant (PWWTP)

Dear Amanda,

This report covers the compliance information required under the conditions of the above resource consents related to the PWWTP for the three months ended December 2023. This report includes the following information:

- An assessment of compliance against the resource consent conditions for Q1 (Appendix A).
- Quarterly monitoring results required by resource consents WGN970255 [34837], [27633] and [2656] (Appendix B).
- Annual monitoring results required by resource consent WGN130218 [32196], noting these results are submitted on a quarterly basis (Appendix C).

On 6 December 2023, you gave the Council approval to submit this quarterly report by 7 February 2024. The reason for the extension was to enable us to prepare the Q2 report through the new reporting format with Water Outlook (being similar to the Otaki WWTP quarterly reporting). Unfortunately, we have not finalised our reporting through Water Outlook. We are therefore submitting this report in the usual format. We hope to submit the new report for Q3, FY2024.

Overall compliance with resource consents in Q1 FY24

The Council is fully compliant with all PWWTP resource consents as demonstrated in Tables 1 to 4 in Appendix A. The remainder of this letter provides some commentary on the compliance report. We note that the boiler temperature dropped below 650° C on 17 October 2023. However, this related to boiler maintenance that was being undertaken on this day. We have therefore not recorded this as a non-compliance with Condition 5 of WGN130218 [32196].

CLG meeting

The Council is scheduled to hold the next CLG quarterly meeting on 22 February 2024 at the WWTP. A copy of this report will be circulated to the CLG prior to this meeting.

Sludge removal update

The Council has removed sludge from all areas approved for removal under the GWRC consents (WGN230028 and WGN040098). The Council had intended to fill the decommissioned sludge lagoons from material excavated from the storm storage pond as part of the works to line the pond. However, unfortunately, most of this material was identified as unsuitable for fill. The Council is therefore investigating options to import clean soil/fill to complete these works. The Council is seeking advice from GWRC in this regard (as per our email to you dated 7 February 2024).

BPO update

The Council has held several rounds of discussions with iwi relating to the new resource consent and improvement projects. Te Atiawa ki Whakarongotai and Ngati Toa issued a joint letter of support for the renewal of the discharge consent, which has been forwarded to GWRC.

Following iwi engagement, we are now focussing on the best practicable options for improving water quality in Mazengarb Stream, including the following:

- Upgrade of aeration system – completed in Oct 2022.
- Upgrade of the pond capacity and lining of the pond is underway and planned to complete by April 2024.
- Installation of pH correction plant – Contract awarded and work in progress, planned to complete by April 2024.
- Upgrade of A-Recycling system – Order placed for large pumps and upgrade expected to complete by June-July 2024.
- Preparation of an ecological map with site locations for the riparian planting along the Mazengarb, is in progress.
- Focusing on to achieve the ground contact of the treated effluent before reaching waterways may be the one on priority. This is to meet the cultural values.

Work undertaken in Q2 FY24 and ongoing projects

The Council is undertaking ongoing work at the PWWTP, including the following:

- Upgrading the RAS Pump Station 2 (75% complete), although mechanical refurbishment of Clarifier 1 is complete and is now operational, the remaining scope can happen only after Clarifier-3 is emptied (weather permitting, as clarifier-3 has 50% of the capacity). Now planned for completion by second week of March 2024.
- The storage pond upgrade work in progress. Pond upgrade and lining to be completed by end March 2024. As stated above, due to lack of suitable fill material from earthwork, the Council is investigating options to import clean soil/fill to fill the decommissioned sludge ponds. This portion of work may be finished by June 2024 subjected to advice from GWRC and availability of suitable clean fill.
- For pH dosing plant: Contract awarded, work in progress and expected to be complete by April 2024.
- A-Recycling system upgrade: Order placed for large pumps; upgrade work expected to be complete by June-July 2024.
- Design progressing for UV upgrade.
- Cleaning of the DAF Plant completed.
- Transformer upgrade completed in Dec 2023.

Please contact me should you need further information.

Yours faithfully,



Tess Drewitt

Consultant Compliance Officer to
Kapiti Coast District Council

Date 7 February 2024



Ramesh Pillai

Senior Asset Planning Engineer
Kapiti Coast District Council

Date 7 February 2024

Cc:

Grant Stuart - Wastewater Treatment Plants Manager

APPENDIX A - ASSESSMENT AGAINST RESOURCE CONSENT CONDITIONS

Table 1: WGN970255 [34837], [27633], [2656] – Paraparaumu WWTP – Discharges

| Requirement | Condition | Compliance |
|--|----------------|------------|
| All Consents | | |
| General Conditions | 1-6, 8, 15, 21 | ● |
| Discharge of unauthorised contaminants | 7 | ● |
| Community Liaison Group | 9 | ● |
| Air discharge [27633] | | |
| Noxious, dangerous, offensive, or objectionable discharges | 11 | ● |
| Incident notification | 12 | ● |
| Operational logs | 13 | ● |
| Complaints record | 14 | ● |
| Discharges from sludge vitrification process ¹ | 16 | ● |
| Discharge to Mazengarb Drain [2656] | | |
| Records of daily flow | 12 | ● |
| Monitoring of effluent quality | 13, 19 | ● |
| Biochemical Oxygen Demand (BOD) | 18(a)(i) | ● |
| Suspended Solids | 18(a)(ii) | ● |
| Faecal Coliform Bacteria | 18(b)(i) | ● |
| pH | 18(b)(ii) | ● |
| Ammonia, Nitrate, Dissolved Reactive Phosphorous (DRP) | 18(c) | ● |
| Heavy metals | 18(d) | ● |
| Dissolved Oxygen | 18(e) | ● |
| Effects on Ratanui Lakes | 16 | ● |
| Three-monthly reporting to GWRC | 17 | ● |
| Signage | 20 | ● |
| Discharge to unlined storage pond [34837] | | |
| Limit to 3 times per year. ² | N/A | ● |
| Return effluent to PWWTP as soon as reasonably practicable | 11 | ● |

¹ Note that the sludge vitrification process was decommissioned in 2010.

² This is a requirement in the consent details (page 1) as opposed to the conditions of consent.

Table 2: WGN030149 [22566] – Paraparaumu WWTP – Overflow Basin





| Requirement | Condition | Compliance |
|------------------------------------|-----------|---|
| General Conditions | 1, 5 |  |
| Notify GWRC when consent exercised | 2 |  |
| Contingency actions | 3 |  |
| Overflow Contingency Plan | 4 |  |

Table 3: WGN130218 [32196] – Paraparaumu WWTP – Sludge Drying
















| Requirement | Condition | Compliance |
|--|-------------|---|
| General Conditions | 1-3, 19, 20 |  |
| Wood as fuel | 4 |  |
| Boiler temperature (above 650C) | 5 |  |
| Treatment processes | 6-8, 10 |  |
| Discharge of dangerous, noxious, offensive or objectionable contaminants | 9 |  |
| Particulates (not exceeding 50mg/m ³) | 11 |  |
| Emission Testing ³ | 12 |  |
| Monitoring | 13 |  |
| Annual Reporting (by 1 August) | 13 |  |
| Maintenance | 14-16 |  |
| Complaints register ⁴ | 17 |  |
| Incident register & GWRC notification (within 24 hrs / 7 working days) | 18 |  |

Table 4: WGN040098 [34794] – Discharge from sludge lagoons

| Requirement | Condition | Compliance |
|--|-----------|---|
| General conditions | 1, 2, 4 |  |
| Groundwater monitoring | 3 |  |
| Groundwater quality report | 5 |  |
| Update of Sludge Decommissioning Management Plan | 6 | Underway |

³ Not currently required by GWRC.

⁴ No complaints received during Q2.

APPENDIX B – PWWTP QUARTERLY MONITORING RESULTS

APPENDIX C – PWWTP AIR REPORT