

Wairoa WWTP Conditions – 29 November 2018– Version 14**CONDITIONS RELATING TO WAIROA DISTRICT COUNCIL DISCHARGE CONSENTS****CONSENT HOLDER: WAIROA DISTRICT COUNCIL****WAIROA WASTEWATER TREATMENT PLANT****Definitions:**

The following definitions apply across all resource consents:

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| Resource Consents | Consents means [list consents....] |
| Activities | Means the Activities authorised by the Resource Consents |
| WWTP | Means the Pilot Hill wastewater treatment plant including all current and future treatment processes and storage facilities within the WDC land parcel |
| Treated Wastewater | Means secondary treated wastewater derived from the Consent Holder's Wairoa wastewater treatment plant. |
| River Flows ½ Median Median 3 x median | Are calculated based on the median flow for the Lower Wairoa River being 60 m ³ /s. The Lower Wairoa River flow is calculated as follows: (Wairoa at Marumaru x 1.14639) + Waiau at Ardkeen |
| Outlet structure | Means the pipeline used for discharging treated wastewater into the Wairoa River from the WWTP. The pipe enters the riverbed opposite the intersection of Kopu Road and Fitzroy Street. |
| Council | Means the Regulatory Manager of the Hawke's Bay Regional Council. |
| Consent holder | Means Wairoa District Council |

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| 1 | <p>Except as otherwise required by any other condition of the Resource Consents, the Activities must be carried out in general accordance with the following information provided by the applicant (collectively referred to as 'the Application'):</p> <ul style="list-style-type: none"> (a) Wairoa Wastewater Discharge - Resource Consent Application and AEE, dated November 2018, including Appendices A- X; and (b) Section 92 further information response dated X Y 2019; and (c) Additional information provided from the applicant in a letter dated X and Y. |
| | <p>Flows and Timing</p> |
| 2 | <p>Subject to Condition ? [river mouth closure], and until filtration and UV treatment is commissioned under Condition ? and storage of an additional 10,000 m³ has been commissioned, during Wairoa River flows:</p> <ul style="list-style-type: none"> (a) Less than the median the discharge of wastewater from the outlet structure shall: <ul style="list-style-type: none"> i. be limited to 5,400m³ during any 24 hour period; ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; iii. only occur after 6 pm; and iv. shall cease by 6 am at all times. (b) between the median and 3 x median the discharge of wastewater from the outlet structure shall: <ul style="list-style-type: none"> i. be limited to 5,400m³ during any 24 hour period; ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; and iii. can occur at any time of the day providing (i) and (ii) are met. (c) above 3 x median the discharge of wastewater from the outlet structure can occur at any time and volume is not limited. |
| 3 | <p>Subject to Condition ?[river mouth closure], and once filtration and UV treatment is commissioned under Condition ? and storage of an additional 10,000 m³ has been commissioned, during Wairoa River flows:</p> <ul style="list-style-type: none"> (a) less than ½ median the discharge of wastewater from the outlet structure shall: <ul style="list-style-type: none"> i. be limited to 5,400m³ during any 24 hour period; ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; iii. only occur after 6 pm; and iv. shall cease by 6 am at all times. (b) between ½ median and 3 x median the discharge of wastewater from the outlet structure shall: <ul style="list-style-type: none"> i. be limited to 5,400m³ during any 24 hour period ii. only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; and iii. can occur at any time of the day providing (i) and (ii) are met. (c) above 3 x median the discharge of wastewater from the outlet structure can occur at any time and volume is not limited. |
| | <p>River mouth closure</p> |
| 4 | <p>On Monday of each week the Consent Holder shall view the river mouth and assess the extent of flow passing from the river to the sea. If the channel is less than 2 m in width the river mouth is deemed to be closed and discharge flow restrictions as detailed in condition x [below] shall apply.</p> <p>[note this is suggested wording and needs refinement]</p> |
| 5 | <p>During times of river mouth closure, as defined in Condition ?, the consent holder shall cease the discharge of wastewater to the Wairoa River unless:</p> <ul style="list-style-type: none"> (a) The ability to store excess wastewater has been exceeded; and/or (b) Prior to storage capacity at the wastewater treatment plant being exceeded, it is recognised that the maximum storage capacity is likely to be exceeded during a time when no discharge is allowed. |
| 6 | <p>If river mouth closure is imminent, or has occurred, the Consent Holder shall immediately contact the Council and enter into discussions to determine the options for mechanical opening of the river mouth. If deemed appropriate and the Council chooses to take action, the Consent Holder shall provide all assistance as deemed necessary.</p> |
| | <p>Discharge Parameters</p> |
| 7 | <p>The discharge shall not give rise to any of the following effects in the Wairoa River after reasonable mixing:</p> <ul style="list-style-type: none"> (a) The production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials; or (b) Any conspicuous change in the colour or visual clarity; or (c) Any emission or objectionable odour; or (d) The rendering of fresh water unsuitable for consumption by farm animals; or (e) Any significant adverse effects on aquatic life. |

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| 8 | <p>The Consent Holder must ensure that the Treated Wastewater meets the following standards prior to discharge to the Wairoa River:</p> <ul style="list-style-type: none"> (a) The concentration of Soluble Carbonaceous five-day Biochemical Oxygen Demand (ScBOD₅) must not exceed 220 g/m³ in more than 8 out of 12 consecutive monthly samples, or 224 g/m³ in more than 2 out of 12 consecutive monthly samples; (b) The concentration of Total Suspended Solids (TSS) must not exceed 87 g/m³ for more than 8 out of 12 consecutive monthly samples, or 98 g/m³ in more than 2 out of 12 consecutive monthly samples; (c) The concentration of Escherichia coli (E. coli) must not exceed X cfu/100 mL for more than 8 out of 12 consecutive monthly samples, or X cfu/100 mL in more than 2 out of 12 consecutive monthly samples; (d) The concentration of Ammoniacal Nitrogen (NH₄-N) must not exceed 36 g/m³ for more than 8 out of 12 consecutive monthly samples, or 40 g/m³ in more than 2 out of 12 consecutive monthly samples; and <p>Advice Note: Compliance will be demonstrated based on the samples required by Condition ? [monitoring section]. The exceedance frequency allowed for the Treated Wastewater quality values identified above are based on monthly sampling over an annual 12-month monitoring period of 1 July to 30 June each year in accordance with the New Zealand Municipal Wastewater Monitoring Guidelines (NZWERF, Sept 2002) Table 13.2. If the frequency of sampling is more than monthly, the allowed numbers of annual exceedances will need to be amended to remain in line with the New Zealand Municipal Wastewater Monitoring Guidelines (NZWERF, Sept 2002) Table 13.2.</p> <p>[Note: discharge standards need to be discussed and refined]</p> |
| | DISCHARGE STRUCTURE |
| | Location |
| 9 | The discharge structure shall be retained within the area shown in Plan ?. |
| | Modification |
| 10 | <p>In the event of any modification, extension or relocation of the discharge structure, the consent holder shall provide a Structure Design Report to the Council for certification. The design report shall (but is not limited to):</p> <ul style="list-style-type: none"> (a) Be prepared by suitably qualified and experienced, independent expert/s, (b) Detail why changes are required, (c) Include plans and supporting explanation for the proposed works, (d) Outline solutions regarding navigational hazards, (e) Include a Construction Management Plan, (f) Include details of the construction timetable. |
| 11 | <p>Within two months of receiving the Structure Design Report, the Council must advise the consent holder in writing whether or not they have certified the Structure Design Report. If the Council refuses to certify the Structure Design Report it must advise the consent holder why this view is held. The consent holder shall resubmit a revised detailed design to the Council for certification as soon as practicable, and no later than three months after receiving notification from the Council that it refused to certify the initial detailed design.</p> |
| 12 | Following certification of the Structure Design Report, the consent holder can commence modifications in accordance with consent Condition ? [condition below] |
| 13 | <p>Any modifications to the outlet structure as detailed in the Council certified Structure Design Report, shall comply with the following:</p> <ul style="list-style-type: none"> (a) The consent holder shall give the Council (Manager Compliance) at least two working days' notice of the intention to commence the works, and shall advise the Council of having finished the works immediately following their completion. (b) The consent holder shall take all practical measures to limit the amount of sediment and prevent contaminants from entering the waterbody during the construction works. Such measures include, but are not limited to: <ul style="list-style-type: none"> i Any surplus soil, cleared vegetation or debris, shall be deposited at least 20 m from any waterbody or deposited or contained in a manner to reasonably prevent the transportation or deposition of disturbed matter into any waterbody. ii The wash water from containers and tools shall not be discharged into any waterbody and the washing of equipment shall not occur in any waterbody. iii As far as practicable, all machinery work shall be undertaken from the banks of the waterbody rather than in the waterbody. iv Refuelling and carrying out machinery maintenance away from waterbody. v The use of silt fences and other erosion control methods shall be in accordance with the Council 2009: <i>Guidelines for Waterways: Erosion and Sediment Control Guidelines</i>. (c) The consent holder shall ensure that at the completion of the works, any newly established surfaces and any grassed slopes or vegetated areas that were cleared or damaged as a result of the activity, are revegetated in order to prevent sediment from entering the waterbody. (d) The design and installation of the works shall be such that it does not cause any long-term erosion of the bed or banks of the waterbody. (e) To ensure worksite spills are managed appropriately, the consent holder shall produce a Spill Management Plan (SMP) appropriate for the activities being undertaken on site. The SMP must; <ul style="list-style-type: none"> i include procedures for preventing contaminants such as hydrocarbons or chemicals entering any waterbody in the event of a spill; ii be prepared by a suitably qualified person; iii be provided to the Council prior to commencement of the works. |

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| | <p>The consent holder and any contractors engaged to undertake work on their behalf shall abide by the SMP and a copy of this SMP must be present on site at all times while the work is being undertaken.</p> <p>(f) The consent holder shall check, clean and dry machinery used in the bed of the waterbody to limit the spread of aquatic pests.</p> <p>(g) Any wet concrete cast on site shall be fully contained during casting and cast in a dry work area.</p> <p>(h) No concrete shall be dumped into bed of any waterbody.</p> <p>(i) The consent holder shall construct the structures using methods and materials non-toxic to aquatic life.</p> <p>(j) In the event of any archaeological site or waahi tapu being uncovered during the exercise of this consent, activities in the vicinity of the discovery shall cease. The consent holder shall contact the Council (Manager Compliance) to obtain contact details of the relevant tangata whenua. The consent holder shall then consult with the relevant local hapu or marae and the Heritage New Zealand Pouhere Taonga, and shall not recommence works in the area of the discovery until the relevant Heritage New Zealand Pouhere Taonga and tangata whenua approvals to damage, destroy or modify such sites have been obtained.</p> <p>(k) The consent holder shall ensure that any contractors engaged to undertake work authorised by this consent abide by the conditions of this consent. The person responsible for the work on site shall be familiar with the consent conditions and a copy of this consent shall be present on site at all times while the work is being undertaken.</p> |
| | STAGE A IMPROVEMENTS AND ACTIONS |
| | Discharge - Filtration and UV Treatment |
| 14 | <p>Within two years of the commencement date of this consent, the consent holder shall submit to the Council for certification a report outlining the detailed design of the filtration and ultra violet (UV) disinfection treatment system to be installed. The detailed design report shall (but is not limited to):</p> <p>(a) Be prepared by suitably qualified and experienced, independent expert/s; and</p> <p>(b) Clearly outline the:</p> <ol style="list-style-type: none"> i. The location of the disinfection system within the treatment process with supporting explanation, ii. discharge parameters for which the disinfection system has been designed; iii. The flow rate and daily total volume able to be accommodated by the disinfection system and details of any bypass system, <p>(c) Contain details of key operational matters including daily, weekly and monthly maintenance checks; and</p> <p>(d) Include details of the construction timetable.</p> <p>Within two months of receiving the detailed design report, the Council must advise, in writing, the consent holder whether or not they have certified the detailed design.</p> <p>(a) If the Council refuses to certify the detailed design it must advise the consent holder why this view is held. The consent holder shall resubmit a revised detailed design to the Council for certification as soon as practicable, and no later than three months after receiving notification from the Council that it refused to certify the initial detailed design.</p> <p>(b) If the Council certifies the detailed design, the consent holder shall commence construction of the grit trap and filtration and UV disinfection treatment system in accordance with the timetable set out in the report.</p> |
| | Discharge - Network Management Plan |
| 15 | <p>Within 12 months of the commencement date of this consent, the consent holder shall submit to the Council a Network Management Plan. The Plan shall include, but is not limited to:</p> <p>(a) Details of work undertaken since 2015 to reduce the volume of infiltration into the reticulated wastewater network.</p> <p>(b) Details of further work planned be done over the next 5 years to reduce infiltration into the reticulated wastewater network, including (but not limited to):</p> <ol style="list-style-type: none"> i. Installation of a dedicated main pipeline from Kopu Road pump station to Fitzroy Street pump station, ii. Installation of new chopper pumps at every pump station, iii. Installation of emergency power generators at every pump station, iv. Installation of a duplicate rising main from the Fitzroy Street pump station to the Treatment Plant. <p>(c) Timeframes for completion of future works.</p> <p>(d) Calculations of predicted reductions in wastewater flows received at the wastewater treatment plant as a result of the planned works.</p> <p>The consent holder shall undertake the planned works as set out in the Wastewater Network Infiltration Management Plan, within the timeframes specified. The Plan shall be reviewed and incorporated as part of preparing each Wastewater System Review Report as required by Condition ?.</p> |
| | Package - Initial Land Treatment Area |
| 16 | <p>The consent holder shall provide annual updates to the Council during the month of June of each year for the first five years of the commencement date of this consent as to progress towards establishing the ability to discharge treated effluent to up to 50 ha of land.</p> <p>The updates may cease once 50 ha of land application area is commissioned.</p> |
| | Package - Wastewater Education Plan |

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| 17 | <p>Within 12 months of the commencement date of this consent, the consent holder shall submit to the Council a Wastewater Education Plan (WEP) detailing a multi-faceted programme designed to increase the public's understanding and awareness of how their [the public's] actions/activities can influence wastewater volumes, and the ways in which the public can reduce water use. Within six months of submitting the report to Council, the consent holder shall commence delivery of the WUEP, in accordance with the report.</p> <p>The consent holder shall undertake the planned works as set out in the Wastewater Education Plan, within the timeframes specified. The Plan shall be reviewed and updated as part of preparing each Wastewater System Review Report as required by Condition ?.</p> |
| | <p>Package - Catchment Enhancement Plan</p> |
| 18 | <p>Within 12 months of the commencement date of this consent, the consent holder shall submit to the Council a Catchment Enhancement Plan detailing actions taken in the past 24 months and intended actions over the next 3 years towards facilitating the involvement of the Wairoa District Council in activities that improve the quality of freshwater within the wider Wairoa River Catchment. This shall include (but not be limited to):</p> <ul style="list-style-type: none"> (a) Progress on and assistance provided to establishing a catchment improvement group; (b) Financial and in-kind contributions to individual and collaborative catchment programmes; (c) The financial commitment given to various programmes, and that planned; <p>The Catchment Enhancement Programme Plan shall include specific programmes (where known), timing of contributions and involvement and financial commitments.</p> <p>The consent holder shall undertake the planned works as set out in the Catchment Enhancement Plan, within the timeframes specified. The Plan shall be reviewed and updated as part of preparing each System Improvement Plan as required by Condition ? and shall be submitted to Council.</p> <p>Advice Note: The Catchment Enhancement Plan may want to consider plans being prepared by others, including the Council and Iwi, so as to provide joint opportunities to share information and provide for consistent approaches and methodologies.</p> |
| | <p>PROGRESSIVE IMPROVEMENT PROGRAMME</p> |
| | <p>Wastewater Stakeholder Group</p> |
| 19 | <p>No less than 6 months prior to the submission date of the 'System Review Data Reports' required by Conditions ?, the consent holder shall facilitate the establishment and meetings of a Wastewater Stakeholder Group (the Group) for the purposes of providing feedback on the matters of discussion referred to under Condition ? [system review data reports]. Invitations shall be extended to, but are not limited to, representatives of different sectors of the Wairoa community including:</p> <ul style="list-style-type: none"> (a) A youth representative; (b) A representative of the older population; (c) Tangata whenua; (d) Local business owners; (e) Local industries; (f) Hawke's Bay Regional Council; (g) The Department of Conservation; (h) Hawke's Bay District Health Board; (i) Wairoa District Council. <p>The Group may be disbanded between each review provided the Group is reformed in accordance with this condition 6 months prior to each Wastewater System Review Report being finalised.</p> |
| 20 | <p>The first task of the Wastewater Stakeholder Group is to draft 'Terms of Reference' ('Terms') for the group that set out how the group is to operate to meet its purpose, and shall include, but are not limited to, details of meeting frequency, resourcing, decision making processes, group membership, expectations of members, and reporting processes. Once agreed to by the majority of attendees a copy of the 'Terms' shall be provided to the Council.</p> |
| | <p>System Review Exercise and Reports</p> |
| 21 | <p>Within five years of the commencement date of this consent, the consent holder shall prepare a 'System Review Data Report' including but not limited to:</p> <ul style="list-style-type: none"> (a) works undertaken to reduce inflow and infiltration; (b) A summary of changes that have been made to the wastewater treatment plant and details of changes proposed; (c) An analysis of discharge volume and river flow and tidal conditions, and opportunities to lessen the frequency of any discharges below 3 x median flow; (d) The dates and river flow conditions of when any overflow discharges occurred from the pump stations or outlet overflow, and a commentary around how works undertaken to reduce inflow and infiltration have reduced the frequency of overflow discharges. This should include an analysis of any trends in discharge frequency and action proposed to be taken to further reduce overflows; (e) A summary of irrigation systems that have been considered and plans or opportunities to increase the irrigation areas up to 150 ha in the next 5 years; (f) A summary of storage sizes, locations, and designs that have been considered and plans or opportunities to increase the storage volume up to an additional 10,000 m³ 5 years from commencement date of this consent; and (g) key contributions made to improve the quality of freshwater within the wider Wairoa River Catchment. <p>The data shall be provided in a manner to facilitate discussion on the options available at the time to reduce the volume of wastewater that needs to be discharged to the Wairoa River by considering the following:</p> <ul style="list-style-type: none"> (a) The feasibility of and methods to amend the discharge regime so that: |

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| | <ul style="list-style-type: none"> i During flows less than ½ median: <ul style="list-style-type: none"> • Discharge volumes will be limited to 1,600m³ during any 24 hour period, • The discharge will: <ul style="list-style-type: none"> ○ only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; ○ only occur after 6 pm; ○ shall cease by 6 am at all times; and ○ be limited to no more than 30 days discharge in the months of December through to March ii During flows between ½ median to median: <ul style="list-style-type: none"> • Discharge volumes will be limited to 3,000m³ during any 24 hour period; • The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; iii During flows between median to 3xmedian: <ul style="list-style-type: none"> • Discharge volumes will be limited to 5,000m³ during any 24 hour period, • The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; <p>(b) Any changes to the filtration and UV treatment system;</p> <p>(c) The availability of any other alternative discharge and/or treatment options;</p> <p>(d) Details of the work programme and timeframes for implementation of each discharge and/or treatment option considered;</p> <p>(e) The likely storage requirements for implementation of each discharge option; and</p> <p>(f) Updates to the Catchment Enhancement Programme Plan</p> |
| 22 | <p>Within ten years of the commencement date of this consent, and on a ten basis thereafter, the consent holder shall prepare further 'System Review Data Reports' that provide data in relation to the matters referred to in Condition ? to facilitate discussion on</p> <p>(a) Methods to increase storage as follows: <ul style="list-style-type: none"> i To 50,000-100,000m³ as part of the first 10 year review ii To 200,000-400,000m³ as part of the second 10 year review </p> <p>(b) The feasibility of the application of wastewater to land, with the view of this involving: <ul style="list-style-type: none"> i up to 300ha as part of the first 10 year review ii up to 600ha as part of the first 10 year review </p> <p>(c) The feasibility of and methods to amend the discharge regime: <ul style="list-style-type: none"> i As part of the first 10 year review so that: <ul style="list-style-type: none"> • During flows less than ½ median there is no discharge to the river, • During flows between ½ median to median: <ul style="list-style-type: none"> ○ Discharge volumes will be limited to 3,000m³ during any 24 hour period, ○ The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; ○ only occur after 6 pm; and ○ shall cease by 6 am at all times ▪ During flows between median to 3 x median: <ul style="list-style-type: none"> ○ Discharge volumes will be limited to 5,000m³ during any 24 hour period, ○ The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; ii As part of the second 10 year review so that: <ul style="list-style-type: none"> • During flows less than the median there is no discharge to the river, • During flows between median to 3 x median: <ul style="list-style-type: none"> ○ Discharge volumes will be limited to 5,000m³ during any 24 hour period, ○ The discharge will only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; ○ only occur after 6 pm; and ○ shall cease by 6 am at all times </p> <p>(d) Any changes to the filtration and UV treatment system;</p> <p>(e) The availability of any other alternative discharge and/or treatment options;</p> <p>(f) Details of the work programme and timeframes for implementation of each discharge and/or treatment option considered;</p> <p>(g) Updates to the Catchment Enhancement Programme Plan</p> |
| | <p>System Improvement Plans</p> |
| 23 | <p>Within 6 months of the System Review Data Reports being provided to the Stakeholder Group, the consent holder, shall prepare, in consultation with the Stakeholder Group, and submit to the Council, a 'System Improvement Plan' that sets out:</p> <p>(a) Inclusion of the Wastewater Network Infiltration Management Plan, including further details on works undertaken to reduce inflow and infiltration</p> <p>(b) Details of improvements and/or changes to be made to the Wastewater Treatment System over the period to the next review to reduce the volume of wastewater that needs to be discharged to the Wairoa River;</p> <p>(c) Clear reasons why those changes are being made (including views of the Wastewater Stakeholder Group on the changes proposed);</p> |

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| | <p>Where agreement of the Group is reached on specific matters and actions, this shall be reflected in proposed actions included in the final Systems Improvement Plan. Should consensus and preference not be reached, or the consent holder does not support the Group's preference, this difference shall be documented in the Systems Improvement Plan with an explanation of the outstanding position and/or difference and the Consent Holders alternative proposal where needed</p> <p>(d) An indicative work programme setting out steps necessary to implement changes proposed;</p> <p>(e) A summary of updates to the Catchment Enhancement Plan</p> |
| | Wastewater Monitoring Strategy |
| 24 | <p>Within 12 months of submitting the 'System Improvement Plans' required by Condition ? to the Council, the consent holder may submit to the Council for certification a Wastewater Monitoring Strategy (WMS) or amendments to an existing WMS The WMS shall:</p> <p>(a) Be prepared by a suitably qualified and experienced, independent expert/s,</p> <p>(b) Outline the monitoring that the consent holder will undertake to assess the effects of the discharge.</p> <p>Within two months of receiving the Wastewater Monitoring Strategy the Council must advise, in writing, the consent holder whether or not they have certified the WMS.</p> <p>(a) If the Council refuses to certify the WMS it must advise the consent holder why this view is held. The consent holder shall resubmit a revised WMS to the Council for certification as soon as practicable, and no later than three months after receiving notification from the Council that it refused to certify the WMS.</p> <p>(b) If the Council certifies the WMS the consent holder shall immediately commence the monitoring set out in the WMS (at the frequencies stated in the WMS).</p> <p>Advice Note: For clarity, the monitoring set out in the Wastewater Monitoring Strategy may supersede the monitoring required by Conditions ?-.</p> |
| | MONITORING |
| | General and Standards |
| 25 | The Consent Holder must measure and record the daily Treated Wastewater volume discharged to the Wairoa River. The flow meter used to measure and record the Treated Wastewater volume must be calibrated to an accuracy of plus or minus 5%. The Treated Wastewater volume records must be transferred daily to the Council via telemetry in a format compatible with the Regional Council's telemetry system. |
| 26 | The Consent Holder must have the Treated Wastewater flow meter calibrated annually by an authorised and certified contractor which confirms that the flow meter is accurate to within +/- 5% or better. This calibration must be completed with the meter in-situ to ensure that the calibration takes into account any variability due to its location and installation. The calibration certificate must be provided to the Council by XY each year commencing in XY 20ZZ . |
| 27 | The consent holder shall establish and maintain an electronic system that allows tidal conditions to be assessed and recorded. |
| 28 | <p>To assist with making decision in accordance with Conditions ? and ?, the consent holder shall develop a telemetry system to receive river flow data from the Wairoa at Marumaru and Waiau at Ardkeen flow gauging sites operated by the Council.</p> <p>If such data exchange cannot be established with the Council, then manual retrieval of the appropriate electronic data through alternative means may be necessary. Should this not be possible then flows measured at 9 am shall apply for the following 24 hour period.</p> |
| 29 | The consent holder shall ensure that all sampling equipment, including meters and field measurement devices, are maintained in good working order by suitably qualified persons in accordance with the manufacturer's instructions and industry best practice guidelines. Records of calibration shall be kept and made available to the Council upon request. |
| 30 | <p>In respect of monitoring required by the Consents, the following apply:</p> <p>(a) All monitoring and sampling techniques employed in respect of the conditions of the Resource Consents must be carried out by suitably experienced and qualified persons;</p> <p>(b) All analytical testing other than on-site measurements, undertaken in connection with these Resource Consents must be performed by a laboratory that is IANZ accredited for the analytical tests or any other method approved in advance in writing by the Council;</p> <p>(c) All water sample analyses must be undertaken in accordance with the methods detailed in the "Standard Methods For The Examination Of Water And Waste Water, 2017" 23rd edition by A.W.W.A., A.P.H.A. and W.E.F., or any other method approved in advance in writing by the Regulatory Manager; and</p> <p>(d) If any monitoring sites are identified as unsuitable, alternative monitoring sites must be identified and developed within a reasonable time after consultation with the Regulatory Manager and Planning Manager.</p> |
| 31 | The results of the monitoring undertaken in accordance with the conditions of this consent shall be provided to the Council upon request. Copies of original laboratory analytical reports for all analyses shall also be made available upon request. |
| | Chemistry |
| 32 | <p>From the commencement of this Consent, the Consent Holder must take samples of Treated Wastewater at the locations as shown on Plan 1 attached to and forming part of this Consent. Treated Wastewater is to be sampled once per month. The samples must be analysed for:</p> <p>(a) Soluble Carbonaceous five-day Biochemical Oxygen Demand (ScBOD₅);</p> <p>(b) Chemical Oxygen Demand (COD)</p> <p>(c) Total Suspended Solids (TSS);</p> |

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| | <ul style="list-style-type: none"> (d) Total Nitrogen (TN); (e) Ammoniacal-Nitrogen (NH₄-N); (f) Nitrate Nitrogen (NO₃-N); (g) Nitrite Nitrogen (NO₂-N); (h) Total Phosphorus (TP); (i) Dissolved Reactive Phosphorus (DRP); (j) <i>Escherichia coli</i> (<i>E. coli</i>); (k) Dissolved oxygen (DO) (field measurement); (l) pH (field measurement). |
| 33 | Prior to the discharge of Treated Wastewater, the Consent Holder must install and maintain a sampling port in the pipeline between the WWTP outlet (after UV treatment) and the Wairoa River discharge. |
| | In-River Monitoring |
| 34 | <p>Within three months of the commencement date of this consent, the Consent Holder shall submit to the Council an In-river Monitoring Plan. The In-river Monitoring Plan shall include benthic surveys and water quality monitoring at a minimum of five monitoring sites, sampling for but not limited to:</p> <ul style="list-style-type: none"> (a) Sediment particle grain size analysis; (b) Heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn); (c) Organic content/matter (TVS); (d) Nutrients (Total Recoverable P, DRP, Total N, SIN, NH₄-N); (e) Pathogens (<i>E.coli</i>); and (f) Infauna. <p>The plan shall also detail how sampling corresponds to river and tidal conditions and the reasons for the proposed monitoring regime. The frequency of sampling (benthic and water quality) shall be stipulated.</p> <p>Advice Note: <i>The In-river Monitoring Plan may want to consider plans being prepared by others, including the Council and Iwi, so as to provide joint opportunities to share information and provide for consistent collection, analysis and interpretation methodologies.</i></p> |
| 35 | Within 12 months of the commencement date of this consent, the Consent Holder shall have commenced monitoring in accordance with the In-river Monitoring Plan required by Condition ? |
| | Cultural Monitoring |
| 35 | <p>Within two years of the commencement of this consent, the Consent Holder must invite a panel to undertake Cultural Health Index Monitoring according to their respective tikanga. If the engagement is accepted, the Consent Holder must commission that panel or subpanel (as advised) to undertake Cultural Health Index Monitoring in compliance with the Cultural Health Index Monitoring Protocol prepared in accordance with Condition ? [condition below].</p> <p>The consent holder shall take guidance from the trustees of Tatau Tatau o Te Wairoa in inviting the panel members.</p> |
| 36 | <p>If the engagement is accepted to undertake Cultural Health Index Monitoring as set out in Conditions ?, the Consent Holder must commission the panel members to prepare a Cultural Health Index Monitoring Protocol that as a minimum, must:</p> <ul style="list-style-type: none"> (a) describe the relationship of tangata whenua to the discharge area and the sites of interest in or near the locations to which these Permits apply; (b) describe the tikanga relevant to the proposed cultural monitoring (including kaitiakitanga, mauri of awa, whenua, tangata, whanaungatanga and te ha tawhirimatia), the activities, and the site(s); (c) identify and map (with map references) the site(s) to be monitored; (d) set out the frequency of monitoring; (e) describe the procedures required to access the application site for the monitoring (in particular health and safety requirements); (f) identify the parameters and methods used for the monitoring; and (g) set out the matters to be included in the Cultural Health Index Monitoring Report and the frequency of the reporting obligations. (h) Set out the procedures for amendments, (i) set out the procedure for replacing panel members or re-establishing the panel. |
| 37 | The Consent Holder shall provide a copy of the Cultural Health Index Monitoring Protocol, or any amended version to the Council within 1 month of receiving it. |
| | MAINTENANCE AND ASSET MANAGEMENT |
| 38 | <p>The Consent Holder must:</p> <ul style="list-style-type: none"> (a) ensure that the above ground physical infrastructure of the treatment system is inspected weekly, and that relevant parts of the systems are also inspected whenever any alarms associated with the systems are activated; and (b) visually inspect the land surface of all discharge piping routes every 2 weeks, and that relevant parts of the systems are also inspected whenever any alarms associated with the systems are activated; and (c) visually inspect the piping and discharge location at pumps stations following any discharge. |
| 39 | The consent holder shall ensure that all components of the wastewater treatment plan and outfall structure are maintained in good working order, and in accordance with industry best practice guidelines. |

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| 40 | The consent holder shall record the details of all inspections and works undertaken in accordance with Condition ? . Those records shall be made available to the Council upon request. |
| 41 | The Consent Holder shall include in an asset management plan provision for condition assessments to be undertaken no less frequently than every five years. The relevant provisions and results of any assessment shall be made available to Council upon request. |
| | REPORTING AND NOTIFICATION |
| 45 | The Consent Holder must notify the Council within two working days of the identification of any non-compliance or when it becomes evident that a breach of Consent Conditions is about to occur. For conditions requiring compliance with a particular water quality standard, notification is required within two working days of receipt of the water quality analysis from the Laboratory. |
| | Annual Report |
| 42 | <p>By X Y 1 X 2020, and there after every two years, the Consent Holder must prepare Monitoring Report that summarises and assesses all of the monitoring information required under Conditions ?, ? and ? for the preceding 24 months (1 Y to 30 Y) or part thereof for the duration of this Consent. The raw monitoring data from Conditions ? and ? should be made available to the Council. The Annual Monitoring Report must assess whether compliance has been achieved with Conditions ?. This report must be submitted to Council in a suitable electronic format. The report shall address and summarise (but not be limited to) the following:</p> <ul style="list-style-type: none"> (a) daily discharge volumes, and corresponding river flows and tidal sequence; (b) summary of any wastewater quality monitoring information and compliance with water quality standards; (c) the occurrence of any pump station overflow and corresponding river flows and tidal sequence; (d) storage management; and (e) the volume discharged to alternative sources. |
| | Pump Station |
| 43 | <p>Should a pump station overflow occur, the Consent Holder shall:</p> <ul style="list-style-type: none"> (a) Advise the following parties within 24 hours of becoming aware of the incident, <ul style="list-style-type: none"> i The Council; ii The Hawke’s Bay District Health Board’s Public Health Unit; and iii Others?? (b) Erect signage along the river bank to advise the community of the incident (c) provide a summary report to the Council within 48 hours of the discharge ceasing and detail: <ul style="list-style-type: none"> i the location and timing of the overflow; ii the approximate volume released; iii river and tidal conditions at the time of the discharge; iv any observed effects; v the cause of the discharge; and vi remedial action if known to avoid such discharge occurring again. |
| | River Mouth Closure |
| 44 | <p>If the river mouth is closed and wastewater is discharged in accordance with Condition ?, prior to that discharge occurring, and as soon as reasonably practicable after becoming aware that a discharge will be necessary, the Consent Holder shall holder shall notify the Hawke’s Bay District Health Board’s Public Health Unit, and the Hawke’s Bay Regional Council.</p> <p>Within 10 working days of a discharge undertaken in accordance with this consent condition ceasing, the consent holder shall provide the Council with written confirmation of the dates and times when a discharge in accordance with this condition commenced and ceased. This reporting shall also detail:</p> <ul style="list-style-type: none"> (a) time of notation of Council and the DHB; (b) action taken by the Consent Holder to limit and restrict discharges occurring; and (c) results of discussions with Council, including options, for mechanical opening of the river mouth. |
| | Complaints |
| 46 | <p>The Consent Holder must maintain and make available to Council on request, a record of complaints which lists all complaints received alleging adverse effects attributable to the Activities. The record must include but not be limited to the following:</p> <ul style="list-style-type: none"> (a) Name, address and contact details of the complainant (if given); (b) The nature and duration of the alleged effect; (c) The date and time the alleged effect was detected; (d) The location where the alleged effect was detected; (e) The prevailing river and weather conditions e.g. flow rate, river mouth status, wind speed and direction; |

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| | (f) Description of the Activities occurring at the time of the complaint; (g) Description of investigations carried out to investigate the complaint and their outcomes; (h) The likely cause of the effect (if detected under (f)); (i) Any measures taken to avoid, remedy or mitigate the effect (if detected under (f)) and its reoccurrence; and (j) Details of the follow up undertaken to inform the complainant of the actions taken in response to the complaint and the outcomes of the investigations. |
| | REVIEW |
| | a. To be detailed |

Plans

Plan 1: Discharge location and wastewater sampling location