

Wairoa WWTP Conditions – 4 September 2020– Version 20

CONDITIONS RELATING TO WAIROA DISTRICT COUNCIL WASTEWATER DISCHARGE CONSENTS

CONSENT HOLDER: WAIROA DISTRICT COUNCIL

WAIROA WASTEWATER TREATMENT PLANT AND PUMP STATION OVERFLOW DISCHARGES AND DISCHARGE STRUCTURES

Version Control

Version	Who	Date	Reason
14	LEI	29/11/18	With application
15	HL	27/2/20	Updated before prehearing – additions to application version in tracked changes
16	CD/HL	13/3/20	Updated after prehearing – additions to application version in tracked changes
17	CD/HL	26/4/20	Incorporated changes suggested by submitters and HBRC. Comments included for further discussion. SS – Shade Smith
19	HL/CD	5/5/20	Incorporated comments from HBRC reviewers
20	LEI/WDC/CD	4/09/20	WDC team review to address feedback from HBRC and submitters, and to rationalise conditions.

Definitions:

The following definitions apply across all resource consents:

Terminology	Revised Definition
Consent Holder	Means Wairoa District Council
Activities	Means the Activities authorised by the Resource Consents
WWTP	Means the Wairoa wastewater treatment plant including all current and future treatment processes and storage facilities within the WDC land parcel located at Whakamahi Road legally described as Part Lot 1 DP 3350 SO 7253, Wairoa District, C/T HBJ2/800.
Resource Consents	<p><u>Means resource consents granted by Hawke’s Bay Regional Council to the Consent Holder for the following Activities:</u></p> <ul style="list-style-type: none"> • <u>To discharge treated wastewater from the Wairoa WWTP to the Wairoa River within the coastal marine area via an outfall structure (pipeline) and its associated overflow outlet pipe (Rule 160 – Regional Coastal Environmental Plan (RCEP));</u> • <u>To discharge untreated wastewater from the Alexandra Park and North Clyde pump stations via overflow outlet pipes into the Wairoa River (Rule 52 – RRMP);</u> • <u>To discharge untreated wastewater from the Kopu Road pump station via overflow outlet pipe into the Wairoa River (Rule 9 – RCEP);</u> • <u>To allow for the relocation, maintenance and operation of the overflow outlets from the North Clyde, Alexandra Park, Kopu Road and Fitzroy Street pump stations (Rule 69 – RRMP);</u> • <u>To discharge aerosols and odour to air associated with the receipt, treatment and storage of wastewater from the Wairoa WWTP (Rule 28 – Regional Resource Management Plan (RRMP));</u> • <u>The occupation of riverbed for the Wairoa WWTP’s outfall structure within the Coastal Marine Area (Rule 178 – RCEP);</u> • <u>To replace the Wairoa WWTP’s outfall structure (pipeline) and any associated earthworks (Rule 97 – RCEP);</u> • <u>The maintenance and potential re-establishment of the Wairoa WWTP’s outfall structure within the coastal marine area (relocation of main outfall structure) (Rule 117 – RCEP);</u> • <u>To carry out earthworks, construction and rehabilitation activities related to the relocation and maintenance of the Wairoa WWTP’s main outfall structure (Rule 130 – RCEP);</u> • <u>To carry out vegetation clearance and soil disturbance within the coastal marine area associated with the replacement (and future modification, relocation, and maintenance) of the Wairoa WWTP’s outfall structure (Rule 8 – RCEP).</u>
body representing Maori interests	Body or bodies representing the views of Maori with respect to wastewater management.
Treated Wastewater	Means secondary treated wastewater derived from the Consent Holder’s Wairoa WWTP.
Wairoa River	<u>Te Wairoa Hōpūpū Hōnengenenge Matangirau which starts at Te Kapu (Frasertown) and ends at the sea. Te Wairoa Hōnengenenge from Turiroa to Kaimango (Spooners Point) and Te Wairoa Matangirau from Kaimango to the sea are the reaches of the Wairoa River that receive Wairoa’s wastewater discharges.</u>

Wairoa WWTP Conditions – 4 September 2020– Version 20

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 as determined by Hawke’s Bay Regional Council’s hydrologists based on daily flow data for 1985-2014. The Lower Wairoa River flow is calculated as follows: (Wairoa at Marumaru x 1.14639) + Waiau at Ardkeen <u>Advice Note:</u> <u>HBRC’s hydrologists may adjust the value of the median from time to time to reflect changes indicated by more recent river flow data.</u>
Outlet structure	Means the pipeline <u>and its diffuser structure that are</u> 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.
<u>Outlet structure design plan</u>	<u>Means the detailed design plan of the outlet structure.</u>
<u>Council Manager</u>	Means the Regulatory Compliance Manager of the Hawke’s Bay Regional Council.
<u>Council</u>	<u>Means the Hawke’s Bay Regional Council</u>
<u>MWWP</u>	<u>Means the Maori Wastewater Working Party</u>
<u>River mouth closure restriction</u>	<u>Means when the channel at the river mouth is less than 2 m in width.</u>

Colour code key
No changes requested
HBRC
SS
<u>Underline and strikethrough</u> are changes to conditions

NUMBER	WDC’s PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	OVERARCHING PRINCIPLES
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’) <u>where the most recent information takes priority over older information in the event of any conflicts:</u></p> <p>(a) Wairoa Wastewater Discharge – Resource Consent Application and AEE, dated November 2018, including Appendices A- F; and</p> <p>(b) Section 92 further information responses dated 19 May, 24 June, and 11 October 2019; and</p> <p>(c) Additional information provided from the applicant in a letter dated X and Y <u>4 September 2020</u>; and</p> <p>(d) <u>Agreed outcomes from engagement with submitters as detailed in</u></p> <p style="margin-left: 40px;">a. ?</p> <p style="margin-left: 40px;">b. ?</p> <p style="margin-left: 40px;">c. ?</p>
	Maori Engagement
	<p><u>Advice Note: the following summary provides an overview of condition structure to assist with demonstrating how Maori views and values have been taken into account.</u></p> <p>The purpose of the condition structure is to ensure the following outcomes are and remain core goals and principles that guide future changes to the consented activities:</p> <p>(a) the mauri of the Wairoa River is enhanced,</p> <p>(b) the role of [body representing Maori interests] as kaitiaki is enhanced, and the concept of whanaungatanga is implemented;</p> <p>(c) mahinga kai is not compromised;</p> <p>(d) <u>wastes from mortuaries and funerary activities are separated from municipal wastewater and do not form part of the discharge to the Wairoa River Estuary.</u></p>

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	<p>(e) [list others]</p> <p>(e) treated wastewater discharges from the WWTP do not result in detectable adverse effects on the Wairoa River estuary and coastal water quality after reasonable mixing; and</p> <p>(f) options and funding sources to reduce the discharge of treated wastewater into the river and its effects on the river are continuously investigated and implemented to the greatest practicable extent, <u>including but not limited to inflow and infiltration reduction, storage and land discharge schemes.</u></p> <p>(g) <u>Removal of untreated wastewater associated with network overflows. the public understanding and awareness are increased regarding how the public's actions can reduce water use and wastewater volumes.</u></p> <p>(h) <u>catchment enhancement opportunities that improve the quality of freshwater within the wider Wairoa River Catchment are consistently identified, coordinated with Iwi other stakeholders, funded, and actioned within an identified reasonable timeframe; and</u></p> <p>(i) <u>reporting on system performance is focussed on water quality improvements, and opportunities to reduce the volume of wastewater that needs to be discharged to the Wairoa River</u></p>
2	<p>To achieve Condition 2 above demonstrate its commitment to Maori engagement the Consent Holder must:</p> <p>(a) ensure human E. Coli associated with the wastewater treatment plant is not detected in the Wairoa River by undertaking faecal source tracking once every two years at Site X and Y (Condition 22 24);</p> <p>(b) contribute to Wairoa River catchment enhancement (Condition 49 47);</p> <p>(c) have considered and, if practically possible, ceased the discharge of mortuary waste to the sewer system (Conditions 41-43 45);</p> <p>(d) <u>Make best endeavours to transition to land-based discharge (Conditions 53-55); and</u></p> <p>(e) invite [body representing Maori interests] to:</p> <p>i. prepare cultural health protocol and monitoring in accordance with Condition 23 27;</p> <p>ii. nominate three representatives to sit on the MWWGP in accordance with Condition 38-3;</p> <p>iii. involve the MWWGP in reviews and system optimisation (Condition 58 55);</p> <p>iv. invite [body representing Maori interests] to develop wānanga and karakia options to restore the mauri of the Wairoa River from the effects of wastewater treatment plant discharges and to restore cultural connections.</p> <p>Advice Note: <i>The purpose of the MWWP (Condition 37-3) is for ongoing direct engagement between Maori and the Consent Holder in relation to activities at and discharges from the wastewater treatment plant.</i></p>
	<p>Maori Wastewater Working Party</p>
3	<p><u>Within 6 months after the commencement of this Consent the Consent Holder shall invite the following parties to establish a Maori Wastewater Working Party (MWWP) to assist its decision making around the review, operation and management of the Wairoa wastewater discharges, including preparation of the System Improvement Plans:</u></p> <p>(a) <u>Three Maori representatives to be selected by [body representing Maori interests];</u></p> <p>(b) <u>two District Council Councillors; and</u></p> <p>(c) <u>the Infrastructure Services Manager (or nominee)</u></p> <p><u>In respect of (a) above, [body representing Maori interests] must inform the Consent Holder of their selected representatives within 3 months of the commencement of consent if they want to be involved. All reasonable endeavours will be taken to ensure representatives are consistent and attend meetings and other such requirements.</u></p> <p><u>In addition to the parties in a – b, independent expert technical advisors in the areas of community wastewater treatment, discharges and Maturanga Maori can attend.</u></p> <p><u>An independent facilitator appointed by the representatives of the MWWP at their first meeting (and replaced as necessary by appointment of the MWWP during the term of the consents) shall run the meetings, producing an agenda and minutes.</u></p> <p>Advice Note: <i>Further to the above, the purpose of the MWWP is to:</i></p> <p>(a) <i>evaluate information produced from the conditions of consent;</i></p> <p>(b) <i>help consider limitations (including funding and certainty of outcome) and opportunities</i></p> <p>(c) <i>Identify and discuss opportunities to integrate tikanga Maori and to implement changes where those changes would reduce cultural effects;</i></p> <p>(d) <i>Consider expert assessment from independent expert technical advisors;</i></p> <p>(e) <i>Review, comment and make recommendations, including possible changes to design, methodology, management, operation of the network and treatment and discharge system or any monitoring or mitigation;</i></p> <p>(f) <i>Identify and discuss external influences that may influence the impact of wastewater management, such as National and Regional policy changes, population growth and changes within the catchment;</i></p>

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	<p>(g) <u>Address implications for costs and affordability to the wider community; and</u></p> <p>(h) <u>Assist the Consent holder to achieve its goals, these being:</u></p> <ul style="list-style-type: none"> i. <u>the mauri of the Wairoa River is enhanced,</u> ii. <u>the role of [body representing Maori interests] as kaitiaki is enhanced, and the concept of whanaunqatanga is implemented;</u> iii. <u>mahinga kai is not compromised;</u> iv. <u>wastes from mortuaries and funerary activities are separated from municipal wastewater and do not form part of the discharge to the Wairoa River Estuary;</u> v. <u>treated wastewater discharges from the WWTP do not result in detectable adverse effects on the Wairoa River estuary and coastal water quality after reasonable mixing;</u> vi. <u>options and funding sources to reduce the discharge of treated wastewater into the river and its effects on the river are investigated and implemented to the greatest practicable extent, including but not limited to inflow and infiltration reduction, storage and land discharge scheme;</u> vii. <u>removal of untreated wastewater associated with network overflows; and</u> viii. <u>the public understanding and awareness are increased regarding how the public's actions can reduce water use and wastewater volumes.</u>
4	<p><u>The MWWP must be invited to meet a minimum of annually with notice provided by the Consent Holder 4 weeks before the meeting and an agenda with relevant documents circulated 2 weeks before the meeting.</u></p>
5	<p><u>Any:</u></p> <ul style="list-style-type: none"> (a) <u>unanimous recommendations of the MWWP representatives shall be implemented by the Consent Holder unless other statutory approvals or processes are also required. If such statutory approvals or processes are required, the Consent Holder shall use reasonable endeavours to obtain them.</u> (b) <u>recommendations of the MWWP that are not unanimous must be considered by the Consent Holder and if not implemented reasons must be provided to the MWWP and recorded in the Annual Report (Condition 51?).</u>
6	<p>On receipt of an itemised invoice, reasonable costs of <u>members of the MWWP not otherwise employed by a Territorial Authority</u> preparing for and attending MWWP meetings by Maori representatives shall be paid by the Consent Holder.</p>
OPERATIONAL MATTERS	
Discharge Volumes and Timing	
7	<p>Subject to Condition 6-10 [river mouth closure restriction], and until filtration and UV treatment is commissioned under Condition 41-39 and storage of an additional 10,000 m³ <u>and 50 ha of irrigation</u> have been commissioned, when during Wairoa River flows are:</p> <ul style="list-style-type: none"> (a) less than the median the discharge of Treated wWastewater from the outlet structure shall: <ul style="list-style-type: none"> i. be limited to 3,000 <u>5,400</u>m³ 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 Treated wWastewater from the outlet structure shall: <ul style="list-style-type: none"> i. be limited to 5,000 <u>5,400</u>m³ 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 Treated wWastewater from the outlet structure can occur at any time and volume is not limited.
8	<p>Subject to Condition 6-10 [river mouth closure restriction], and once filtration and UV treatment is commissioned under Condition 41-39 and storage of an additional 10,000 m³ <u>and 50 ha of irrigation</u> have been commissioned, during when Wairoa River flows are:</p>

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	<p>(a) less than ½ median the discharge of Treated WWastewater from the outlet structure shall:</p> <ul style="list-style-type: none"> i. be limited to 1,600 5,400 m³ 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; <u>and</u> v. <u>no more than 30 days discharge in December to March.</u> <p>(b) <u>more than ½ median and less than the median the discharge of Treated Wastewater from the outlet structure shall:</u></p> <ul style="list-style-type: none"> i. <u>be limited to 3,000 m³ during any 24 hour period;</u> ii. <u>only occur during periods of ebb tide 30 minutes after high tide to 6 hours after high tide; and</u> iii. <u>can occur at any time of the day providing (i) and (ii) are met.</u> <p>(c) between ½ median and 3 x median the discharge of Treated WWastewater from the outlet structure shall:</p> <ul style="list-style-type: none"> i. be limited to 5,400 <u>5,000</u> m³ 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. <p>(c) above 3 x median the discharge of Treated Wastewater from the outlet structure can occur at any time and volume is not limited.</p>
	<p><u>River mouth closure restriction</u></p>
9	<p><u>Within 6 months of the commencement of this consent, the Consent Holder shall install and maintain in working order a camera to continuously record a view of the Wairoa River mouth. A single daily image for 9 am shall be archived.</u></p> <p><u>Advice note: if the location of the river mouth changes then the camera direction will need to change.</u></p> <p><u>Or if a camera location cannot be found:</u></p> <p>On Monday of each weekday the Consent Holder must view the river mouth from an elevated position on Rangihoua (Pilot Hill) and visually assess the extent of river 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 restricted, the and discharge flow restrictions as detailed in Condition 7 <u>10</u> shall apply.</p>
10	<p>During times of river mouth closure restriction, as defined in Condition 6, the Consent Holder shall cease the discharge of Treated WWastewater 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. <p><u>In the event that (a) or (b) apply, the Consent Holder may resume the discharge of Treated Wastewater to the Wairoa River in accordance with Conditions 7 or 8.</u></p>
11	<p>If river mouth closure restriction is imminent, or has occurred, the Consent Holder must 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>
12	<p>If the river mouth is closed <u>restricted</u> and wastewater is <u>likely to be</u> discharged in accordance with Condition 7 <u>10</u>, prior to that discharge occurring, and as soon as reasonably practicable after becoming aware that a discharge will be necessary, the Consent Holder must holder shall notify the MWWP, Hawke's Bay District Health Board's Public Health Unit (DHB), <u>Wairoa District Council's Environmental Health Officer (EHO),</u> 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 <u>notification</u> of Council, <u>EHO</u>, MWWP, and the DHB; (b) actions taken by the Consent Holder to limit and restrict <u>river discharges occurring including, where appropriate, discharges to land as an alternative to the river;</u> and (c) results of discussions with Council, including options, for mechanical opening of the river mouth.

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	Discharge Quality Parameters
13	<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 <u>life</u>; or (f) <u>No more than 3°C change in temperature compared to upstream.</u>
14	<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<u>25</u> g/m³ in more than 8 out of 12 consecutive monthly samples, or 224<u>75</u> g/m³ in more than 2 out of 12 consecutive monthly samples; (b) The concentration of Total Suspended Solids (TSS) must not exceed 87<u>70</u> g/m³ for more than 8 out of 12 consecutive monthly samples, or 98<u>150</u> g/m³ in more than 2 out of 12 consecutive monthly samples; (c) The concentration of Escherichia coli (<i>E. coli</i>) must not exceed 20,000 cfu/100 mL for more than 8 out of 12 consecutive monthly samples, or 200,000 cfu/100 mL in more than 2 out of 12 consecutive monthly samples; (d) <u>The concentration of Enterococci must not exceed 10,000 cfu/100 mL for more than 8 out of 12 consecutive monthly samples, or 100,000 cfu/100 mL in more than 2 out of 12 consecutive monthly samples; and</u> (e) The concentration of Ammoniacal Nitrogen (NH₄-N) must not exceed 36<u>25</u> 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. <p>Advice Note: Compliance will be demonstrated based on the samples required by Condition 12<u>23</u> [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>
	MONITORING
	General and Standards
15	<p>The Consent Holder must measure and record the daily Treated Wastewater volume discharged to the Wairoa River <u>as follows</u>:</p> <ul style="list-style-type: none"> (a) <u>Prior to the installation of the new outlet structure - the Consent Holder must calculate the daily discharge volume based on raw wastewater inflows pumped through the Fitzroy Street pump station, changes in storage levels in the WWTP's ponds, percentage of discharge valve opening, and duration of discharge.</u> (b) <u>Following the commissioning of the new UV system a flow meter shall be installed in the discharge pipe after the outlet of the WWTP. 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.</u>
16	<p>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 X Y each year commencing in X Y 20ZZ.</p>
17	<p><u>After the installation of the UV disinfection system (Condition39), the Consent Holder must measure and record the UV transmissivity of the wastewater after the filtration unit, and before the UV disinfection system measured hourly. The transmissivity meter used to measure and record the Treated Wastewater transmissivity must be calibrated to an accuracy of plus or minus 5%. The Treated Wastewater transmissivity records must be transferred monthly to the Council Manager.</u></p>
18	<p>The Consent Holder must establish and maintain an electronic system that allows <u>daily tidal conditions-cycles</u> to be assessed and recorded.</p>
19	<p>To assist with making decisions in accordance with Conditions 7<u>7</u> and 8<u>8</u>, the Consent Holder must develop a telemetry system to receive river flow data from the Wairoa at Marumaru and Waiiau 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 <u>river flows measured at no earlier than 3 pm shall apply for the following overnight discharge period and, where relevant, river flows measured within 1 hour of 9 am shall apply for the following 24-hour daytime discharge period.</u></p>

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
20	The Consent Holder must 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.
21	<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 <u>Manager</u>;</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 Council <u>Manager</u>; 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 Council Manager and Planning Manager.</p>
22	The results of the monitoring undertaken in accordance with the conditions of this consent must be provided to the Council upon request. Copies of original laboratory analytical reports for all analyses shall also be made available upon request.
	<u>Discharge Chemistry and Pathogens</u>
23	<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 <u>from the WWTP's main oxidation pond outlet until the UV treatment system is installed, and then from a dedicated sampling port between the UV treatment system and the outlet thereafter.</u> The samples must be analysed for:</p> <p>(a) Soluble-Carbonaceous five-day Biochemical Oxygen Demand (Se<u>C</u>BOD₅), <u>mg/L</u>; Chemical-Oxygen Demand (COD), <u>mg/L</u>;</p> <p>(b) Total Suspended Solids (TSS), <u>mg/L</u>;</p> <p>(c) Total Nitrogen (TN), <u>mgN/L</u>;</p> <p>(d) Ammoniacal-Nitrogen (NH₄-N), <u>mgN/L</u>;</p> <p>(e) Nitrate Nitrogen (NO₃-N), <u>mgN/L</u>;</p> <p>(f) Nitrite Nitrogen (NO₂-N), <u>mgN/L</u>;</p> <p>(g) Total Phosphorus (TP), <u>mgP/L</u>;</p> <p>(h) Dissolved Reactive Phosphorus (DRP), <u>mgP/L</u>;</p> <p>(i) <i>Escherichia coli</i> (<i>E. coli</i>), <u>cfu/100mL</u>;</p> <p>(j) <i>Enterococci</i>, <u>cfu/100mL</u>;</p> <p>(k) Dissolved oxygen (DO) (field measurement), <u>mgO/L</u>;</p> <p>(l) pH (field measurement).</p>
24	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.
	<u>In-River Monitoring</u>
24	<p>Within three months of the commencement date of this consent, the Consent Holder must submit to the Council an In-river Monitoring Plan <u>for certification</u>. 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> <p>(a) Sediment particle grain size analysis (<u>by weight</u>);</p> <p>(b) <u>Sediment Heavy</u>-metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn);</p> <p>(c) <u>Sediment Organic</u> content/matter (TVS) <u>and organic carbon</u>;</p>

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	<p>(d) Sediment nNutrients (Total Recoverable P, DRP, Total N)</p> <p>(e) River water nutrients (DRP, SIN, NH₄-N);</p> <p>(f) Sediment Ppathogens (<i>E. coli</i>, <i>Enterococci</i>);</p> <p>(g) Faecal source tracking; and</p> <p>(h) Infauna</p> <p>The plan must 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>
25	<p>Within 12 months of the commencement date of this consent, the Consent Holder must have commenced monitoring in accordance with the In-river Monitoring Plan required by Condition 21 24.</p>
26	<p><u>Within two months of receiving any Plan requiring certification under the conditions of this consent, the Council must advise, in writing, the Consent Holder whether or not they have certified the Plan.</u></p> <p><u>If the Council refuses to certify the Plan it must advise the Consent Holder why this view is held. The Consent Holder shall resubmit a revised Plan 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 Plan.</u></p> <p><u>If the Council certifies the Plan the Consent Holder shall commence what is set out in the Plan as required by conditions of consent or as soon as practicable where no timeframe is specified.</u></p>
	<p>Cultural Monitoring</p>
27	<p>Within two years of the commencement of this consent, the Consent Holder must invite a panel <u>[body representing Maori interests]</u> to undertake Cultural Health Index Monitoring according to their respective tikanga. If the engagement is accepted, the Consent Holder must commission that [body representing Maori interests] panel or sub-panel <u>nominees</u> (as advised) to undertake Cultural Health Index Monitoring in compliance with the Cultural Health Index Monitoring Protocol prepared in accordance with Condition 24 28.</p> <p>The Consent Holder shall take guidance from the trustees of Tatau Tatau o Te Wairoa in inviting the [body representing Maori interests] panel members.</p>
28	<p>If the engagement is accepted to undertake Cultural Health Index Monitoring as set out in Conditions 23 27, the Consent Holder must commission the panel members <u>[body representing Maori interests]</u> to prepare a Cultural Health Index Monitoring Protocol that as a minimum, must:</p> <p>(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;</p> <p>(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);</p> <p>(c) identify and map (with map references) the site(s) to be monitored;</p> <p>(d) set out the frequency of monitoring;</p> <p>(e) describe the procedures required to access the application site for the monitoring (in particular health and safety requirements);</p> <p>(f) identify the parameters and methods used for the monitoring <u>and assessments of effects on cultural health</u>; and</p> <p>(g) set out the matters to be included in the Cultural Health Index Monitoring Report and the frequency of the reporting obligations.</p> <p>(h) Set out the procedures for amendments <u>to the Cultural Health Index Monitoring Protocols</u>,</p> <p>(i) set out the procedure for replacing panel members <u>of the cultural health assessment panel</u> or re-establishing the <u>cultural health assessment panel</u>.</p> <p><u>Advice Note:</u> there are multiple tools for assessing cultural health, including the Mauri Compass. The selection of the methodology is up to the <u>[body representing Maori interests]</u>.</p>
29	<p>The Consent Holder must provide a copy of the Cultural Health Index Monitoring Protocol, or any amended version, <u>and any subsequent Cultural Health Monitoring Reports</u> to the Council <u>Manager</u> within 1 month of receiving it.</p> <p>Advice Note: <i>These documents are the intellectual property of the Maori cultural health experts and are not subject to certification or review by the Consent Holder or Council.</i></p>
	<p>DISCHARGE STRUCTURES</p>
	<p>Pump Station Overflows</p>

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
30	<u>The existing pump station discharge structures shown on Plan ? shall be maintained or replaced in substantially the same locations and dimensions as the existing structures.</u>
	Location and Timing of Construction
31	<p>The discharge structure shall be retained within the area shown in Plan ?. <u>The existing discharge structure, including piping, shall be replaced with a new outfall structure constructed in accordance with Condition ? 32 and Plan ?, within 18 months of obtaining any necessary concessions. After construction all wastewater discharged to the Wairoa River from the WWTP shall be conveyed to the new outfall.</u></p> <p><u>The existing discharge structure shall be used for this purpose in the interim.</u></p>
32	<p><u>Installation of the new outfall structure shall comply with the following:</u></p> <ul style="list-style-type: none"> (a) <u>The Consent Holder shall give the Council Manager at least two working days' notice of the intention to commence works and shall advise the Council Manager of having finished the works immediately following their completion.</u> (b) <u>The Consent Holder shall take all practical measures to limit the amount of sediment and prevent contaminants from entering the waterbody during the works. Such measures include, but are not limited to:</u> <ul style="list-style-type: none"> i <u>Any surplus soil, cleared vegetation, excavated trench material 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.</u> ii <u>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.</u> iii <u>As far as practicable, all machinery work in the riverbed shall be undertaken during low river flow conditions and from the banks of the river or a craft rather than in the river.</u> iv <u>Refuelling and carrying out machinery maintenance at least 10 m inland from MHWS (Mean High Water Springs).</u> v <u>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>.</u> (c) <u>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.</u> (d) <u>The design and installation of the structure shall be such that it does not cause any long-term erosion of the bed or banks of the waterbody.</u> (e) <u>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:</u> <ul style="list-style-type: none"> i <u>include procedures for preventing contaminants such as hydrocarbons or chemicals entering any waterbody in the event of a spill;</u> ii <u>be prepared by a suitably qualified person;</u> iii <u>be provided to the Council prior to commencement of the works.</u> <p><u>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.</u></p> (f) <u>The Consent Holder shall check, clean and dry machinery used in the bed of the waterbody to limit the spread of aquatic pests.</u> (g) <u>Any wet concrete cast on site shall be fully contained during casting and, where possible, cast in a dry work area.</u> (h) <u>No concrete or excess construction materials shall be dumped into the bed of any waterbody.</u> (i) <u>The Consent Holder shall use methods and materials non-toxic to aquatic life, except where it is necessary and appropriate to use marine grade construction materials, and limit disturbance of the seabed to the greatest extent <u>smallest practicable area.</u></u> (j) <u>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 and the [body representing Maori]. The Consent Holder shall then consult with the relevant local hapu or marae and 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.</u> (k) <u>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.</u>
	Modification
33	<u>In the event of any proposed modification, extension or relocation of the discharge structure, the Consent Holder must provide a Structure Design Report to the Council Manager for certification prior to any works being undertaken. The design report shall (but is not limited to):</u>

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	<ul style="list-style-type: none"> (a) Be prepared by suitably qualified and experienced, independent expert/s, (b) Detail why changes are required, <u>including details and a cost-benefit analysis of the alternatives considered, with particular regard to whether more rapid implementation of land discharge and storage systems may be a better environmental and economical solution,</u> (c) <u>Ensure that the discharge structure, or any portion thereof, is retained within the area shown in Plan ?.</u> (d) Include plans and supporting explanation for the proposed works, <u>including details on the extent and nature of seabed disturbance, and how any adverse environmental effects are to be minimised,</u> (e) Outline solutions regarding navigational hazards, (f) Include a Construction Management Plan, (g) Include details of the construction timetable (h) <u>Include specification of appropriate marine grade construction materials, design standards to be met and expected service life of materials.</u>
	<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>
	<p>Following certification of the Structure Design Report, the consent holder can commence modifications in accordance with consent Condition 30 [condition below].</p>
	<p><u>Maintenance of Discharge Structures</u></p>
34	<p>Any <u>maintenance and associated disturbance of the riverbed or seabed undertaken to ensure the stability and proper functioning of the outlet structure or pump station discharge structures shall modifications to the outlet structure as detailed in the Council certified Structure Design Report, must comply with the requirements set out in Condition 32 (new outfall).following:</u></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: Guidelines for Waterways: Erosion and Sediment Control Guidelines. (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. <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> (f) The Consent Holder shall check, clean and dry machinery used in the bed of the waterbody to limit the spread of aquatic pests. (g) Any wet concrete cast on site shall be fully contained during casting and cast in a dry work area. (h) No concrete shall be dumped into bed of any waterbody.

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	<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 body representing 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>(g) 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>
	<p>Notwithstanding conditions 27 to 30 above, within 6 months of commencement of this consent the Consent Holder must have nominated a contractor and be prepared to install and make modifications to the current discharge structure so that there is only a discharge at the in-river diffuser.</p>
	<p>Within 18 months of commencement of this consent, discharge structure modifications must have occurred so that discharge occurs solely through the structure installed in accordance with Condition 31.</p>
	<p>MAINTENANCE AND ASSET MANAGEMENT</p>
35	<p>The Consent Holder must:</p> <p>(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</p> <p>(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</p> <p>(c) visually inspect the piping and discharge location at pumps stations following any <u>high level alarms that indicate potential overflow discharge</u>.</p>
36	<p>The Consent Holder must ensure that all components of the wastewater treatment plant and outfall structure are maintained in good working order, and in accordance with industry best practice guidelines.</p>
37	<p>The Consent Holder must record the details of all inspections and works undertaken in accordance with Condition 30 <u>35</u>. Those records shall be made available to the Council upon request.</p>
38	<p>The Consent Holder must 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.</p>
	<p>INITIAL IMPROVEMENTS AND ACTIONS</p>
	<p>Filtration and UV Treatment</p>
39	<p>Within one two years of the commencement date of this consent, the Consent Holder must have installed and be operating submit to the Council for certification a report outlining the detailed design of the a filtration and ultraviolet (UV) disinfection treatment system to be installed. The detailed design report for the system installed shall (but is not limited to):</p> <p>(a) Be prepared by suitably qualified and experienced, independent expert/s;</p> <p>(b) Clearly outline detail the:</p> <p>i. The location of the disinfection system within the treatment process with supporting explanation,</p> <p>ii. inflow and discharge quality parameters for which the disinfection system has been designed, including UV transmissivity (UVT) that achieves or exceeds a minimum UVT of 60% when discharge flows of Treated Wastewater are 5,000 m³/d or less;</p> <p>iii. The flow rate and daily total volume able to be accommodated by the disinfection system, <u>and</u></p> <p>(c) <u>Take into consideration</u> 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>

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	<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>
	<p>Within three years of the commencement date of this consent, the Consent Holder must have installed a UV system that treats all of the wastewater discharged.</p>
	<p>Network Management Plan</p>
40	<p>Within 12 months of the commencement date of this consent, the Consent Holder must submit to the Council <u>Manager</u> 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 <u>to</u> 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, On-going private property inspections for compliance. le no illegal storm water connections to the sewer network. 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 PlantWWTP inlet. <p>(c) Timeframes for completion of future works.</p> <p>(d) Calculations of predicted reductions in wastewater flows received at the wastewater treatment plantWWTP as a result of the planned works.</p> <p>The <u>Consent H</u>older shall undertake the planned works as set out in the Wastewater-Network Infiltration-Management Plan, within the timeframes specified. The Plan shall be reviewed <u>by the Consent Holder</u> and incorporated as part of preparing each Wastewater System Review Report as required by Condition 58 <u>55</u>.</p>
	<p>Mortuary Waste</p>
41	<p>Within 12 <u>24</u> months of the commencement date of this consent, the e<u>C</u>onsent H<u>H</u>older shall have prepared a <u>Mortuary Waste Summary Document</u> to be presented to the second MWWP meeting. The summary document shall address:</p> <ol style="list-style-type: none"> (a) The volume and characteristics of mortuary wastes currently discharged; (b) Expected changes in management of mortuary wastes entering the wastewater sewer; (c) Cultural and social implications for the current discharge; (d) Current regulatory rules and limitations with mortuary waste discharge into the wastewater sewer; (e) Cost implications to ratepayers for possible changes in management of mortuary wastes; (f) The requirements and limitations for management of wastes from multiple fatalities; (g) Potential alternatives to the current management practices, including cultural, social and financial implications. <p>Advice Note: <i>MWWP and its operation is defined in Condition 37 <u>3</u>.</i></p>
42	<p>Based on guidance given by the MWWP from the presentation of the summary document in Condition 15b <u>41</u>, the e<u>C</u>onsent H<u>H</u>older shall prepare a Mortuary Waste <u>Management Action Plan</u>. This plan shall have received input from any operators currently discharging mortuary waste to the wastewater sewer. This plan shall be presented to the third meeting of the <u>MWRWP</u>, and subject to revisions, within 6 months of the third <u>that</u> meeting, recommendations shall be made to the Wairoa District Council Infrastructure Committee to modify, if appropriate, the management of mortuary waste entering the wastewater sewer.</p> <p>Advice Note: <i>such recommendations could be modification of the Trade Waste Bylaws that govern acceptance of mortuary waste.</i></p>
43	<p>If recommended to the Wairoa District Council Infrastructure Committee as an outcome of Condition 42, w Within 18 <u>36</u> months of the commencement date of this consent, the Consent Holder must have initiated a Trade Waste Bylaw review consultation process that proposes mortuary waste being prohibited from entering the sewer and treatment system.</p>
	<p>Initial Land Treatment Area</p>

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
44	<p>The Consent Holder must provide annual updates to the Council <u>Manager</u> during the month of June of each year for the first five years of <u>from</u> 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>
	<p>Initial Storage Facilities</p>
45	<p>The Consent Holder must provide annual updates to the Council <u>Manager</u> during the month of June of each year for the first five years of <u>from</u> the commencement date of this consent as to progress towards establishing the ability to construct and operate up to 10,000 m³ of additional storage of wastewater.</p> <p>The updates may cease once 10,000 m³ of additional storage is commissioned.</p>
	<p>Wastewater Education Plan</p>
46	<p>Within 12 months of the commencement date of this consent, the Consent Holder must <u>prepare and implement</u> 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 <u>after</u> submitting the report <u>WEP to the Council <u>Manager</u></u>, the eConsent HHolder shall commence delivery of the WUEP, in accordance with the report.</p> <p>The Consent Holder must 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 <u>Data</u> Report as required by Condition 58 <u>53</u>.</p>
	<p>Catchment Enhancement Plan</p>
47	<p>Within 12 months of the commencement date of this consent, the Consent Holder must submit to the Council <u>Manager</u> 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 <u>(such as undertaking a broad scale benthic survey once every 3 years within the Whakamahi and Ngamotu Lagoons downstream of the outfall).</u></p> <p>The eConsent HHolder shall undertake the planned works as set out in the Catchment Enhancement Plan, within the timeframes specified, <u>subject to obtaining all necessary approvals and funding</u>. The Plan shall be reviewed and updated as part of preparing each System Improvement Plan as required by Condition 58 <u>55</u> and shall be submitted to Council.</p> <p>Advice Note: <i>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.</i></p>
	<p>REPORTING AND NOTIFICATION</p>
48	<p>The Consent Holder must notify the Council <u>Manager</u> <u>as soon as possible and no later than</u> 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, <u>notification of the Council <u>Manager</u> is required within two working days of receipt of the water quality analysis <u>result</u> from the Laboratory.</u></p>
	<p>Annual Monitoring Report</p>
49	<p>By X Y 1 X <u>31 August 2021</u>, and thereafter every two years, the Consent Holder must prepare an Annual Monitoring Report that summarises and assesses all of the monitoring information required under Conditions ?, ? and ? <u>of the Resource Consents</u> for the preceding 24 months (1 July to 30 June) or part thereof for the duration of this Consent. The raw monitoring data from Conditions 19 and 21 should be made available to the Council <u>Manager</u>. The Annual Monitoring Report must assess whether compliance has been achieved with <u>each of the Resource Consent conditions</u>?. This report must be <u>prepared by a suitably qualified and experienced person and submitted to the Council <u>Manager</u> in a suitable electronic format. The report shall address and summarise (but not be limited to) the following:</u></p> <ul style="list-style-type: none"> (a) daily discharge volumes, and <u>corresponding river flows, river mouth conditions, and tidal sequences, and compliance with discharge limits;</u> (b) summary of any wastewater quality monitoring information and compliance with <u>Treated Wastewater</u> quality standards;

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	<p>(c) the occurrence of any pump station overflow and corresponding <u>rainfall, river flows and tidal sequence;</u></p> <p>(d) storage management; and</p> <p>(e) the volume discharged to alternative receiving environments;</p> <p>(f) <u>identification and comment on any trends in discharge data collected, both within the annual period and compared to previous years, including comment on the potential environmental implications of these trends;</u></p> <p>(g) <u>any areas of non-compliance and actions taken to rectify them;</u></p> <p>(h) <u>summary and assessment of receiving environment monitoring data, both within the annual current period and compared to previous years;</u></p> <p>(i) <u>any cultural health monitoring undertaken;</u></p> <p>(j) <u>details of any improvements or changes made to the system; and</u></p> <p>(k) <u>any recommendations for improvement/changes to the monitoring programmes.</u></p>
	<p>Pump Station Performance</p>
50	<p>Should a pump station overflow occur, the Consent Holder must:</p> <p>(a) Advise the following parties within 24 hours of becoming aware of the incident:</p> <ul style="list-style-type: none"> i The Council <u>Manager</u>; ii MWWP; iii The <u>EHO and Hawke's Bay District Health Board's Public Health Unit; marae with close proximity to the Wairoa River;</u> and iv Others? <u>Taiwhenua.</u> <p>(b) Erect signage along the riverbank <u>and issue public notices via local mass media, social media, and the Consent Holder's website</u> to advise the community of the incident; <u>and</u></p> <p>(c) Provide a summary report to the Council <u>Manager</u> within 48 hours of the discharge ceasing and which details:</p> <ul style="list-style-type: none"> i the location and timing of the overflow; ii the approximate volume released <u>(if practicable to quantify);</u> 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 <u>and practicable</u> to avoid <u>or reduce the likelihood of</u> such discharge occurring again.
	<p>Should notification occur as required in Condition 52, members of the MWWP must be given an opportunity to view water levels and discolouration in the estuary and provide guidance on measures taken to respond overflows and high water levels. Such measures may include, but not be limited to:</p> <ul style="list-style-type: none"> (a) direct the Consent Holder to advise specific marae of the closure of the river mouth and the need to avoid gathering of kaimoana and contact recreation; (b) placement and erection of warning signage; and (c) ?
	<p>PROGRESSIVE IMPROVEMENT PROGRAMME</p>
	<p>Wastewater Stakeholder Group</p>

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
51	<p>No less than 6 months prior to the submission date of the 'System Review Data Reports' required by Conditions 56 53 and 54, the Consent Holder must 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 Conditions 58 53 and 54 [system review data reports]. <u>In consultation with the MWWP, invitations shall be extended to, but are not limited to, representatives of different sectors of the Wairoa community including:</u></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 <u>Data</u> Report being finalised.</p>
52	<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 must 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 <u>Manager</u>.</p>
	<p>System Review Exercise and Reports</p>
53	<p>Within five years of the commencement date of this consent, the Consent Holder must 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 <u>and other land-based discharge</u> systems that have been <u>implemented and changes that have been</u> considered and plans or opportunities to increase the irrigation areas up to 150 ha in the next 5 years; (f) A summary of <u>storage expansion that has been implemented and changes to</u> 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 <u>in the next 5 years from commencement date of this consent</u>; and (g) <u>Whether the discharge quality standards of this consent can be adjusted to improve discharge quality</u>; (h) Key contributions made to improve the quality of freshwater within the wider Wairoa River Catchment, <u>including summary of discussions with AFFCO and other major point source dischargers into the Wairoa River</u>; (i) Funding sources investigated to assist with wastewater system improvements. <p>The data must 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> <p>(Aa) The feasibility of and methods to amend the discharge regime so that:</p> <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;

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	<ul style="list-style-type: none"> ○ 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 <ul style="list-style-type: none"> 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 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; <p>(Ab) Any changes to the filtration and UV treatment system;</p> <p>(Ac) The availability of any other alternative discharge and/or treatment options;</p> <p>(Ad) Details of the work programme and timeframes for implementation of each discharge and/or treatment option considered;</p> <p>(Ae) The likely storage requirements for implementation of each discharge option; and</p> <p>(Af) Updates to the Catchment Enhancement Programme Plan.</p>
54	<p>Within ten years of the commencement date of this consent, and on a ten <u>year</u> basis thereafter, the Consent Holder must prepare further 'System Review Data Reports' that provide data in relation to the matters referred to in Condition 56 53(a)-(g) to facilitate discussion on:</p> <ul style="list-style-type: none"> (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 (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 (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:

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	<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>(a) Any changes to the filtration and UV treatment system;</p> <p>(b) The availability of any other alternative discharge and/or treatment options;</p> <p>(c) Details of the work programme and timeframes for implementation of each discharge and/or treatment option considered; and</p> <p>(d) Updates to the Catchment Enhancement Programme Plan.</p>
	<p>System Improvement Plans</p>
55	<p>Within 6 months of the System Review Data Reports being provided to the Stakeholder Group, the Consent Holder must prepare, in consultation with the MWWP and Stakeholder Group, and submit to the Council <u>Manager</u>, a 'System Improvement Plan' that sets out:</p> <p>(a) Details <u>of</u> improvements and/or changes to be made to the wastewater treatment and discharge system over the period to the next review to implement tikanga Māori and to improve the mauri of the Wairoa River;</p> <p>(b) Inclusion of the Wastewater Network Infiltration Management Plan, including further details on works undertaken to reduce inflow and infiltration;</p> <p>(c) 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>(d) Clear reasons why those changes are being made (including views of the Wastewater Stakeholder Group on the changes proposed);</p> <p>Where agreement of the <u>Wastewater Stakeholder Group</u> 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 <u>Wastewater Stakeholder Group's</u> 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>(e) An indicative work programme setting out steps necessary to implement changes proposed;</p> <p>(f) A summary of updates to the Catchment Enhancement Plan</p>
	<p>Wastewater Monitoring Strategy</p>
56	<p>Within 12 months of submitting the 'System Improvement Plans' required by Condition 58 <u>55</u> to the Council, the Consent Holder may submit to the Council <u>Manager</u> 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 12 <u>9</u> to 25 <u>24</u>.</p>
	<p>COMPLAINTS</p>
57	<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>

Wairoa WWTP Conditions – 4 September 2020– Version 20

NUMBER	WDC's PROPOSED REVISED WORDING OF DRAFT CONDITIONS INCLUDING SOME SUBMITTER FEEDBACK
	<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; (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 recurrence; 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.
	<p>REVIEW</p>
58	<p>The <u>Hawke's Bay</u> Regional Council may annually during the month of May review the conditions of the consent in accordance with Sections 128, 129, 130, 131 and 132 of the Resource Management Act 1991 for the following purposes:</p> <ul style="list-style-type: none"> (a) To address any adverse effect on the receiving environment that can be reasonably attributed to the Activities which may arise from the exercise of the resource consent and which is appropriate to deal with at a later stage. (b) To modify the monitoring programme required by the resource consent or require additional monitoring if there is evidence that the current monitoring requirements of the resource consent are inappropriate or inadequate. (c) To modify the reporting requirements of the resource consent if there is evidence that the current reporting requirements of the resource consent are inappropriate or inadequate. (d) To address any new regional or national rules, standards, or regulations relating to freshwater and/or coastal water management.