

Schedule 1: General Conditions for WAR080254 [26633, 33180, 33181 and 33182]

1. Except as otherwise required by any other condition of these consents, the activity authorised by this Wastewater Discharge Permit shall be carried out generally in accordance with following information provided by the applicant:
 - Greytown Waste Water Treatment Plant Proposed operation, upgrade and maintenance to 2049; Application for Resource Consents, Activity Description and Assessment of Environmental Effects; Mott MacDonald, Geange Consulting; 9 September 2015, including Appendices 1 to 17;
 - Greytown WWTP Consent Application – Additional Information requested by the Panel (undated and no page numbers) but received 18 December 2015.

Where there are inconsistencies between the application and the further information provided by the applicant, the most recent information applies. In addition, where there may be inconsistencies between information provided by the applicant and conditions of the permit, the conditions apply

Advice Note 1: Any change from the location, design concepts and parameters, implementation and/or operation may require a change of consent conditions pursuant to Section 127 of the Resource Management Act 1991, or, if the changes exceed the scope of a change of conditions, a new consent under section 13 of the Act.

2. The Consent Holder shall engage in writing with the Manager, Environmental Regulation, Wellington Regional Council, if any contingency works or variation from the consents is required prior to undertaking any activity. This is to ascertain whether the contingency work is within the scope of these consents, or whether a variation to the consents or additional resource consent will be required.

Upgrade Staging

3. The treatment system shall be upgraded in stages as follows:

Table 1: Land Management Stage Commissioning Programme

Stage Name	Stage Description	Stage to commence no later than:
Stage 1A	Plant optimisation and minor capital works	Commencement of this consent
Stage 1B	Discharge of treated effluent to “Site A” block (Stage 1B) during low-flow conditions	1 January 2021
Stage 2A	Discharge of treated effluent to “Site B” (Stage 2A) without deferred storage	1 November 2030
Stage 2B	Discharge of treated effluent to “Site B” (Stage 2B) with deferred storage	1 January 2039

Management and Operations Plans

4. The Consent Holder shall prepare, within the timeframes stated, the management and monitoring plans/manuals listed in Table 2 below. The plans:
 - a) shall give effect to the relevant requirements outlined in the conditions in Schedules 1, 2, 3, and 4; and
 - b) may be prepared as separate plans; or
 - c) where approved in writing by the Manager, Environmental Regulation, Wellington Regional Council, one or more plans may be combined as a single plan; and
 - d) Each plan shall detail which consent conditions the plan is giving effect to.

Table 2: Management Plans

Management Plan	Due (time from commencement of consents)
Greytown WWTP Operations and Maintenance Manual	6 Months
Odour Management Plan	6 Months
Tangata Whenua Values Monitoring Plan	12 Months
Inflow and Infiltration Reduction Management Plan	12 Months
Discharge to Water Management Plan	12 Months
Environmental Monitoring Plan	12 Months
Site Flooding Management Plan	12 Months
Riparian Management Plan	24 Months
Discharge to Land Management Plan	27 Months

5. **Prior to the formal submission of the final document required under Condition 4, each manual and plan listed in Schedule 1: Condition 4 Table 2 shall be reviewed by a suitably qualified independent person. Any comments and inputs received from the independent reviewer shall be clearly documented and attached to the plan, along with clear explanation of where any comments have not been incorporated and the reasons why.**

Advice Note 2: For the purpose of this condition ‘independent person’ shall be a suitably qualified and experienced person who is not an employee of the South Wairarapa District Council and who does not work for the company contracted to design the wastewater treatment system.

6. Following each independent review under Schedule 1: Condition 5, the Consent Holder shall submit a draft copy of each of the manuals and plans listed in Schedule 1: Condition 4 Table 2 to the Wellington Regional Council at least 20 working days before it is submitted to the Manager, for technical certification in compliance with Schedule 1: Condition 7. Any comments received from the Council, along with a clear explanation of where any comments have not been incorporated and the reasons why, shall be supplied to the Manager, at the same time that the relevant plan is submitted under Schedule 1: Condition 7.

7. The manuals and plans listed in Schedule 1: Condition 4 Table 2 shall be submitted within their respective timeframes to the Manager, Environmental Regulation, Wellington Regional Council for their written technical certification.
 - a) Should certification of any manual or plan be withheld, the Consent Holder shall submit a revised manual or plan to the Manager, for technical certification as soon as is practicable. Should certification of the revised manual or plan be again withheld then the Consent Holder shall engage a suitably qualified mutually acceptable independent person for resolution of the matters of dispute and his or her decision on those matters shall be final. The costs of dispute resolution shall be met by the Consent Holder;
 - b) Activities which are subject to a plan shall not commence until the plan has received technical certification. This does not apply to the Greytown WWTP Operations and Maintenance Manual;
 - c) A manual or plan may be varied by the Consent Holder. The certification process for a variation of a manual plan shall follow the process outlined above; and
 - d) The Consent Holder shall exercise this consent in accordance with, and comply with, the provisions of any certified manual or plan (including any certified variation) at all times.

Advice Note 3: For the purpose of this condition “technical certification” means confirmation that the management or monitoring plan

- a) achieves the objectives of the plan listed in Schedule 1: Condition 8 Table 3; and
- b) provides for the minimum contents for the plan as listed in Schedule 1: Condition 9 Table 4.

8. The objectives of the manuals and plans are set out in Table 3.

Table 3: Objectives of the Management and Maintenance Plans

Management or Monitoring Plan	Objective of the Management Plan
Greytown WWTP Operations and Maintenance Manual	To outline the operation and maintenance of the Greytown WWTP and wastewater discharge systems.
Tangata Whenua Values Monitoring Plan	To develop, in consultation with Kahungunu ki Wairarapa and Rangitane o Wairarapa, a monitoring programme that is responsive to the effects of the Greytown WWTP and its discharges to water and land that are of concern to these iwi authorities.
Inflow and Infiltration Reduction Management Plan	To determine the extent of inflow and infiltration into the sewer network and outline the investigation process for determining the most efficient, cost effective and non-disruptive manner for sewer network rehabilitation, if it is required.
Discharge to Water Management Plan	To define the best practicable option to achieve the outcomes specified in Schedule 1: Condition 9(a), subject to other consent conditions and the requirements of the Discharge to Land Management Plan. The Plan must: a) Establish a discharge regime for discharges of

Management or Monitoring Plan	Objective of the Management Plan
	<p>treated wastewater from Stages 1B and 2A which is linked to the flows of the Papawai Stream and in particular define Papawai Stream flow conditions at which wastewater discharges will be precluded;</p> <p>b) Define storage volumes for Stage 2B and situations in which a Stage 2B contingency discharge to the Papawai Stream may occur;</p> <p>c) Specify methods to minimise the frequency, duration and extent of Stage 2B contingency discharge events; and</p> <p>d) Include a Papawai Stream monitoring and reporting programme.</p>
<p>Discharge to Land Management Plan</p>	<p>To maximise the discharge of treated wastewater to land within the constraints of the conditions of these consents and the constraints of: land availability, wastewater storage, soil and groundwater conditions, odour and aerosol control, and the avoidance of risks to human health.</p> <p>The Plan must:</p> <p>a) Address the specific site conditions and limitations for all land discharge areas which are proposed to receive wastewater;</p> <p>b) Detail the Greytown WWTP wastewater discharge to land methods and systems;</p> <p>c) Address any potential land use conflicts (such as the gliding activities and existing electricity assets) and describe how those conflicts will be resolved; and</p> <p>d) Include soil and groundwater monitoring programmes and reporting requirements.</p>
<p>Odour Management Plan</p>	<p>To minimise the risk of nuisance odours and aerosols beyond the boundaries of the site and achieve the requirements of Schedule 3: Conditions 1 to 4 of these consents.</p> <p>The Plan must:</p> <p>a) Identify the potential risks associated with odour and aerosols associated with the operation of the Greytown WWTP and land treatment system, including procedures to minimise those effects; and</p> <p>b) Protocols for responding to complaints and other incidents.</p>
<p>Environmental Monitoring Plan</p>	<p>To document the environmental monitoring to be undertaken to monitor the effects of the Greytown WWTP on the environment from the activities</p>

Management or Monitoring Plan	Objective of the Management Plan
	authorised by these consents.
Site Flooding Management Plan	To identify and document the issues relating to potential flooding of the Greytown WWTP site and the ways in which the wastewater treatment and storage ponds could, if required, be protected from flood hazards.
Riparian Management Plan	<p>To detail riparian management measures for those parts of the Papawai and Tilson Streams located within or adjacent to the Greytown WWTP land subject to these consents and to progressively provide appropriate riparian planting of those streams in a manner which enhances their freshwater ecology.</p> <p>The Plan must:</p> <ul style="list-style-type: none"> a) Be initiated by the Consent Holder during Stage 1A (i.e. prior to 31 December 2020); b) Provide, so far as is practicable, for the exclusion of stock from those waterways.

9. The Schedule 1: Condition 8 Table 3 plans and manuals shall:
- a) Be developed to achieve the following over-riding objectives.
 - (i) From Stage 1B onwards minimise treated wastewater discharges to the Papawai Stream so far as is reasonably practicable within the constraints of land availability on the Stage 1B site and storage within the existing ponds at their existing bund level; and
 - (ii) From Stage 2A onwards minimise treated wastewater discharges to the Papawai Stream, so far as is reasonably practicable within the constraints of land availability on the Stage 1B and 2A sites and storage within the existing ponds at their existing bund level.
 - (iii) **Avoid** where possible, and otherwise minimise, wastewater discharges to the Papawai Stream at times of low stream flow and particularly when the flow in the Papawai Stream at Fabians Road is less than 190 L/s.
 - b) As a minimum include, but not be limited to, the information listed in Schedule 1: Condition 9 Table 4.

Table 4: Minimum contents of Management and Monitoring Plans

Management Plan	Minimum Contents
Greytown WWTP Operations and Maintenance Manual	<ul style="list-style-type: none"> a) WWTP overview. b) WWTP operating procedures. c) Description of 'normal operating conditions' d) Responsibilities for on-site activities. e) Operational and compliance monitoring. f) Plant condition inspections and maintenance. g) Trouble shooting guide. h) Roles and responsibilities.

Management Plan	Minimum Contents
	<ul style="list-style-type: none"> i) On-site staff training procedures. j) Details of a complaints register. k) Managing potential conflicts between wastewater discharges and Gliding Club activities and existing electricity distribution lines. l) How emergency discharges will be dealt with and if any additional resource consents are required for foreseeable emergency discharges. m) A protocol (and programme) for reviewing the effectiveness of the manual.
Tangata Whenua Values Monitoring Plan	<ul style="list-style-type: none"> a) Effects of the Greytown WWTP that are of concern to Kahungunu ki Wairarapa and Rangitane o Wairarapa b) A description (including spatial extent where possible) of the cultural values of the land occupied by the Greytown WWTP, the land discharge area and the Papawai Stream c) Any opportunities for Kahungunu ki Wairarapa and Rangitane o Wairarapa to be involved in monitoring of the effects of the WWTP discharges d) Outcomes expected from ongoing consultation e) A protocol (and programme) for reviewing the effectiveness of the monitoring plan.
Inflow and Infiltration Reduction Management Plan	<ul style="list-style-type: none"> a) Issue identification and quantification, including a summary of results from preliminary investigations (catchment flow monitoring, infiltration and inflow assessment) and field investigations (infiltration source detection, inflow source detection) b) Priority works and actions c) Ongoing works and actions, including a prioritised sewer renewal programme, an education programme (general public, building inspectors), and a review of guidance material d) Information collection and record keeping and an annual reporting procedure e) Roles and responsibilities f) A protocol (and programme) for reviewing the effectiveness of the management plan.
Discharge to Water Management Plan	<ul style="list-style-type: none"> a) Wastewater discharge management including: <ul style="list-style-type: none"> (i) Details of the Papawai Stream flow regime at the point of wastewater discharge having regard to upstream water takes; (ii) Papawai Stream stage recorder and rating curve details; (iii) Wastewater discharge flow rates; and (iv) wastewater discharge channel maintenance b) Ecological advice regarding the Papawai Stream flows at which the most ecological benefit can be achieved by minimising or avoiding wastewater discharges to the

Management Plan	Minimum Contents
	<p>stream.</p> <p>c) For Stages 1B and 2A:</p> <ul style="list-style-type: none"> (i) Papawai Stream flows below which wastewater discharges will be avoided, so far as is practicable; and (ii) Maximum wastewater discharge rates at the range of flows described in (c)(i). <p>d) Details (by January 2035) of the additional storage volume required for Stage 2B.</p> <p>e) Details (by January 2035) of the circumstances in which a Stage 2B contingency discharge may occur to the Papawai Stream, including appropriate restrictions on such discharges related to the flow in the Papawai Stream.</p> <p>f) Details of the best practicable option to minimise the frequency, duration and volume of such contingency discharges.</p> <p>g) Details of wastewater flow rate monitoring</p> <p>h) A protocol (and programme) for reviewing the effectiveness of the management plan.</p>
<p>Discharge to Land Management Plan</p>	<p>a) Stage 1 Site A and Stage 2 Site B: Site description including any watercourses present; the pumping, conveyance and discharge infrastructure; and the land discharge regime.</p> <p>b) Wastewater discharge management including:</p> <ul style="list-style-type: none"> (i) weather and climate reporting; (ii) soil moisture monitoring; (iii) soil management including maintaining soil structure; (iv) wastewater flow rate monitoring; (v) wastewater hydraulic application rates; (vi) nutrient loading rates; (vii) pasture and crop management; (viii) fertiliser management (grazing and buffer zones); (ix) high speed wind shutdown; (x) odour and aerosol management; (xi) system maintenance; (xii) public health risk management; (xiii) access restrictions to land receiving wastewater; and (xiv) managing potential conflicts between wastewater discharges and Gliding Club activities and existing electricity distribution lines. <p>c) Any screen planting proposed within the land discharge areas, including the screen planting location, buffer distances, species, and establishment and maintenance protocols.</p>

Management Plan	Minimum Contents
	<ul style="list-style-type: none"> d) Land discharge area site inspections including: <ul style="list-style-type: none"> (i) regular walkovers; (ii) inspections after heavy rain, and (iii) odour monitoring. e) A protocol (and programme) for reviewing the effectiveness of the management plan.
Odour Management Plan	<ul style="list-style-type: none"> a) A description of the Stage 1 and 2 WWTP system components and their operation relevant to the management of odours and aerosols including the inlet screen, wastewater ponds, and UV disinfection unit b) Routine odour monitoring c) Complaints receipt, investigation and reporting procedures d) Contingency measures to manage adverse odours or aerosols e) A protocol (and programme) for reviewing the effectiveness of the management plan.
Environmental Monitoring Plan	<ul style="list-style-type: none"> a) Influent and wastewater discharge quantity and quality monitoring. b) Monitoring required under Schedule 2 of these consents including the Papawai Stream. c) Papawai Stream ecological monitoring including macroinvertebrate and macrophyte monitoring. d) Groundwater monitoring including for the land discharge areas, pond seepage, nearby bores and wells. e) Soil health monitoring. f) Odour and aerosol monitoring. g) Reporting of data, effects and consent compliance. h) A protocol (and programme) for reviewing the effectiveness of the monitoring plan.
Site Flooding Management Plan	<ul style="list-style-type: none"> a) Investigation into the historic flooding of the ponds b) Investigation into different options available to protect the ponds from future flooding c) Engineering assessment to understand the implications of the options and selection of the best practical option d) Protocols and procedures should parts of the WWTP or land discharge areas become unusable due to flooding, including the issues associated with loss of land discharge areas caused by crop loss or siltation and how nitrogen leakage will be prevented, whilst maximising the remaining disposal capacity of the remaining land discharge areas e) A geotechnical assessment of the possibility of wastewater pond bank erosion and/or instability during or after flood events f) A plan to alleviate any significant risks of bank erosion or instability associated with flood events g) Detail on the consultation undertaken with the GWRC

Management Plan	Minimum Contents
	Flood Protection Department h) How inconsistencies with the Waiohine River Scheme Plan will be avoided i) A protocol (and programme) for reviewing the effectiveness of the management plan.
Riparian Management Plan	a) A description of the existing riparian environment within and adjacent to the WWTP and land discharge areas b) Identification and description of riparian management initiatives being undertaken upstream or downstream of the area under (a), and the extent to which a collaborative approach between the Consent Holder and other parties may be beneficial and/or achievable c) An assessment of feasible riparian management options, including stock exclusion and riparian planting for specific reaches of the relevant waterways d) A programme for implementing the preferred riparian management options, including cost estimates, planting protocols, maintenance regimes, and responsible persons for implementation. e) A protocol (and programme) for reviewing the effectiveness of the management plan.

10. All the plans and manuals listed in Schedule 1: Condition 4 Table 2 shall be prepared by a suitably qualified and experienced person or persons with expertise in the matters that the individual documents address.
11. All the plans and manuals listed in Schedule 1: Condition 4 Table 2 shall be reviewed and where necessary updated either:
 - a) annually within one month of the anniversary of the commencement date of these consents; or
 - b) Within three months of implementing a new stage as defined in Schedule 1: Condition 3, Table 1; or
 - c) Where environmental monitoring supports a change. Any change shall be subject to the written technical certification of the Manager, Environmental Regulation, Wellington Regional Council.
12. Where there are any contradictions or inconsistencies between the plans and manuals listed in Schedule 1: Condition 4 Table 2 and conditions of these consents, then the conditions apply.

Use of treated effluent on crops intended for human consumption

13. The following (or similar wording with the same intent and outcome) shall be included within the Land Discharge Management Plan to be prepared in accordance with Schedule 1: Conditions 4, 8 and 9:

The Consent Holder shall not allow, or enter into any contract or arrangement which would knowingly allow, the discharge of treated effluent by land discharge directly to crops being grown for the express purpose of human consumption. (Note: The land discharge of treated wastewater to crops (including pasture) for consumption by ruminant animals, irrespective of any intended potential use of those animals for human consumption (including meat, milk, or other product), is not restricted by this condition).

Electricity Support Structures

14. The following (or similar wording with the same intent and outcome) shall be included with the Land Discharge Management Plan to be prepared in accordance with Schedule 1: Conditions 4, 8 and 9:

The consent holder shall take all practical measures to avoid or minimise spray or spray drift onto electricity support structures or conductors so that any discharge of wastewater or bio solids from land discharge and spreading activities do not create a hazard or nuisance to the electricity distribution lines.

Note: All machinery, mobile plant and land discharge systems will need to maintain a minimum clearance distance of 4 metres from the electricity line conductors at all times, in accordance with the New Zealand Code of practice for Electrical Safe Distances NZECP 34:2001.

Monitoring and Recording

15. The Consent Holder shall monitor and record wastewater discharge and influent flow and quality according to the frequency, and constituents specified in Schedule 6: Table 1, at:
- a) the locations specified in Schedule 6: Table 2 and Figure 1 (until such time as the Environmental Monitoring Plan is certified pursuant to Schedule 1: Condition 7);
 - or
 - b) the monitoring locations specified in the Environmental Monitoring Plan (following its certification pursuant to Schedule 1: Condition 7).
16. To enable the sampling of the treated wastewater, easy and safe access to a sampling port(s) shall be provided by the Consent Holder and maintained as close as is practicable to those sampling locations specified in Schedule 1: Condition 20.
17. The Consent Holder shall keep inspection records and operational logs which record regular inspections, identify changes in the operating procedures and record unusual events that occur at the plant. Copies of these records shall be supplied to the Manager, Environmental Regulation, Wellington Regional Council, within 20 working days of a written request by the Manager.
18. In respect of monitoring required by these consents, the following shall apply:
- a) all monitoring techniques employed in respect of the conditions of these consents shall be carried out by suitably experienced and qualified persons;

- b) all analytical testing undertaken in connection with these consents shall be performed by a laboratory that is IANZ accredited for the analytical tests;
- c) all soil and water sample analyses shall be undertaken in accordance with the methods detailed in the “Standard Methods For The Examination Of Water And Waste Water, 2012” 22nd edition by A.P.H.A. and A.W.W.A. and W.E.F., or any other method approved in advance in writing by the Manager, Environmental Regulation, Wellington Regional Council; and
- d) if any monitoring sites are identified as unsuitable, alternative monitoring sites shall be identified and developed after consultation with the Manager, Environmental Regulation.

19. Where a certified plan or manual contains a monitoring, measurement, or recording methodology which differs from those specific methodologies contained within any condition of these consents, the management plan or manual methodology shall prevail.

Advice Note 4: *The intent of this condition is to ensure that appropriate industry methodologies can be applied over the term of consent without the need for an unnecessary variation to conditions.*

Wastewater Volume Measurement

20. The Consent Holder shall fit measuring equipment to monitor the wastewater flows at the following points and within the timeframes specified:

a) inlet inflow	Within six months of commencement of this consent.
b) discharge outflow	Within three months of commencement of this consent.
c) land treatment volume	Prior to any discharge of treated effluent to land (for Stage 1B and Stage 2A and 2B respectively).

21. Flow volume measuring equipment (including inflow volume; outflow volume (as measured at or beyond the UV plant or beyond) and land discharge volume) shall be maintained in accordance with the Greytown WWTP Operations and Maintenance Manual (which shall include reference to manufacturer’s specifications) for the duration of these consents.

22. Within three months of the commencement of these consents, the Consent Holder shall install a datalogger and flow measuring device at the wastewater discharge flow measurement point that is compatible with the Wellington Regional Council’s Water Data Management System.

- a) The datalogger shall record the instantaneous treated wastewater discharge at a minimum of 15 minute intervals. The data shall be provided automatically on a daily basis in a format compatible with the Water Use Data Management System; and
- b) The datalogger unit and flow measuring device shall be installed and maintained by a suitably qualified person in accordance with manufacturer’s specifications and industry best practice guidelines, and to the satisfaction of the Manager, Environmental Regulation, Wellington Regional Council.

23. Where the flow measuring device measures flow in a pipe, measurement error is to be no more than +/- 5%, and where installed at a weir or open channel, measurement error is to

be no more than +/- 10% as an average across the flow range. The measuring equipment must:

- a) be able to measure cumulative discharge;
 - b) be able to measure instantaneous flow rate;
 - c) be installed in accordance with the manufacturer's specifications; and
 - d) be calibrated annually.
24. The Consent Holder shall verify the accuracy of the flow measuring device required under Schedule 1: Conditions 22 and 23 within six (6) months of the commencement of these consents and a minimum of every five years thereafter, and as directed by the Manager, Environmental Regulation, Wellington Regional Council for the duration of this consent to determine if the actual volume of discharge is within +/- 5% as an average across the flow range for a pipe or +/- 10% as an average across the flow range for a weir or open channel.
- a) Any verification of the flow measuring device under this condition must be performed by a suitably qualified person, and to the satisfaction of the Manager, Environmental Regulation, Wellington Regional Council; and
 - b) Within **one month** of any verification being undertaken on the flow measuring device, the Consent Holder shall submit to the Manager, Environmental Regulation, Wellington Regional Council, a copy of the verification certificate/and or evidence documenting the calibration as completed by the person who undertook the verification.

Reporting

25. The Consent Holder shall provide a **Quarterly Data and Exception Report** for each three-month period ending 31 March, 30 June, 30 September and 31 December to the Manager, Environmental Regulation, Wellington Regional Council, within 30 working days of the end of each three-month period. The quarterly report shall be provided in electronic format. The quarterly report shall include, but not be limited to, the following:
- a) The results of all monitoring undertaken in accordance with the conditions of these consents, with all monitoring data provided in a suitable electronic format;
 - b) A brief commentary on any exceptions identified from the data and reasons for difficulties in achieving compliance with the conditions of this consent; and
 - c) Subject to Schedule 1: Condition 35 a schedule summarising any complaints received during the quarter.

Where agreed in writing with the Manager, up to two quarterly reports may be combined into a single report for any such specified reporting period(s).

Advice Note 5: *The Quarterly Data and Exception Report required under this condition on 30 September of any year may be incorporated into the Annual Report, but where it is shall be clearly identified for compliance monitoring purposes.*

26. The Consent Holder shall provide to the Manager, Environmental Regulation, Wellington Regional Council, an **Annual Report** by **30 September** each year, summarising compliance with the conditions of these consents for the previous compliance year (1 July to 30 June inclusive). The Annual Report shall be provided in electronic format and shall include as a minimum:

- a) a summary of all monitoring undertaken in accordance with the conditions of these consents, including analysis of the information in terms of Papawai Stream monitoring parameters;
- b) where compliance with the Papawai Stream monitoring parameters has not occurred a discussion on the potential significance of any trends or changes in environmental effects evident from the monitoring data, both within the annual period and compared to previous years;
- c) any reasons for exceedance of the Papawai Stream monitoring parameters or any management plan prepared under the conditions of this consent;
- d) any measures that have been undertaken, or are proposed to be undertaken in the upcoming 12 months, to improve the environmental performance of the wastewater treatment and disposal system;
- f) any recommendations on alterations/additions to the monitoring programmes and/or any proposed changes to any management plan following any review in accordance with Schedule 1: Condition 11;
- g) a schedule of any complaints recorded during the year and any follow up actions undertaken;
- i) any other issues considered important by the Consent Holder;
- j) an overall monthly site nitrogen budget once discharge to land commences. This will outline the nitrogen inputs and outputs for each month, as well as the deficit/surplus each month;
- k) a discussion of the results of the influent and wastewater quality monitoring throughout the year. This shall include a discussion of the expected influent and wastewater concentrations, compared with the actual concentrations, and an investigation into any discrepancy; and
- l) a trend analysis of the monitoring data to identify any ongoing changes over time, including a discussion of any identified trends, and actions taken to maintain compliance (if required)
- m) particular reference to whether any data trends may be indicative of significant adverse effects on aquatic life after reasonable mixing, or any other significant adverse effect on the environment; and
- n) A copy of the Annual Report shall be made available to the Community Liaison Group within 10 working days of submission to the Wellington Regional Council.

Communications and Liaison

27. Within three (3) months of the commencement of these consents, the Consent Holder shall commence the process to establish a Community Liaison Group (CLG) in accordance with the Terms of Reference included as Schedule 7 to these consents.
28. The Terms of Reference shall be incorporated into the Greytown WWTP Operations and Maintenance Manual; and amendments to the Terms of Reference may be undertaken in accordance with the Terms of Reference and/or the approved Greytown WWTP Operations and Maintenance Manual without the need to vary the conditions of these consents.

Advice Note 6: *In order to achieve compliance with this condition, the Consent Holder shall be required to establish the CLG and organise meetings (including venues). Where invitees choose not*

to attend CLG meetings or otherwise be involved, this shall not be regarded as a matter of non-compliance.

29. Within **1 month** of commencement of this consent a Greytown WWTP liaison person shall be appointed by the Consent Holder to be the main and readily accessible point of contact. The Consent Holder shall take appropriate steps to seek to advise all stakeholders and interested persons of the stakeholder liaison person's name and contact details. If the liaison person will not be available for any reason, an alternative person shall be nominated by the Consent Holder.

Signage

30. For the duration of these consents, the Consent Holder shall:
- a) maintain signage on the true left and true right stream banks of the Papawai Stream in the immediate vicinity of the treated wastewater outfall and at or about the confluence of the Papawai Stream and Ruamahanga River, which shall at all times:
 - (i) provide clear identification of the location and nature of the discharge;
 - (ii) indicate the general frequency and duration of the discharges;
 - (iii) provide a 24-hour contact phone number; and
 - (iv) be visible to the public visiting publically accessible parts of the area and legible from a distance of 20 metres without unnecessarily detracting from the visual amenity of the area.
 - b) maintain appropriate signage on the boundaries of the WWTP site, Site A and Site B, which shall be legible to a person during daylight hours, warning that partially treated wastewater is discharged to land and may be present at the site.
31. The Consent Holder shall consult with **Regional** Public Health and provide a copy of their written approval regarding the wording of the signs prior to submitting them for approval to Wellington Regional Council. Written confirmation of the signage placement accompanied by photographs of the signage shall also be provided to the Manager, Environmental Regulation, Wellington Regional Council, within one month of the erection of the signs.

Access

32. The access gate to the Greytown WWTP site shall remain locked at all times that operational staff of the Consent Holder (which shall include authorised contractors) are not present on site, to prevent unauthorised access.
33. Stock access to the Greytown WWTP oxidation ponds and discharge channel shall be restricted, except that grazing of the embankment not adjacent to either Tilsons Creek or the Papawai Stream by stock shall be permitted under the management of the Consent Holder. All fences or other barriers shall be maintained by the Consent Holder to be of suitable stock proof standard at all times.

On-site meeting with WWTP Operations Contractor

34. The Consent Holder shall arrange and conduct a consent information meeting within **two months** of the date of commencement of these consents. The purpose of the meeting shall be to confirm the conditions of the consents and the responsibilities of the contractor. The Consent Holder shall invite, with a minimum of 10 working days notice, the Wellington Regional Council and a representative from each key contractor operating the activity.

Complaints Register

35. The Consent Holder shall keep a record of any complaints that are received with respect to the operation of the Greytown WWTP including any associated discharge to land area. The record shall contain the following details:
- a) name and address of the complainant (unless withheld by the complainant);
 - b) identification of the nature of the complaint;
 - c) date and time of the complaint and of the alleged event;
 - d) weather conditions at the time of the complaint; and
 - e) any measures taken to address the cause of the complaint.
36. The Consent Holder shall notify the Manager, Environmental Regulation, Wellington Regional Council of all complaints relating to the exercise of these consents which result from a non-compliance with the conditions of these consents, within **24 hours** of being received by the Consent Holder, or the next working day. A schedule of all complaints shall be provided with the quarterly report required by Schedule 1: Condition 25.
37. The Consent Holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council, a copy of any complaints recorded in the annual report required by Schedule 1: Condition 26.

System Failure

38. The WWTP system shall be maintained in an efficient operating condition at all times. In the event of any treatment failure that is likely to result in deterioration in the quality of the discharge which would affect the receiving environment, and be in breach of any condition of these consents, the Consent Holder shall:
- a) Take immediate steps to remedy and mitigate any adverse effects on the environment caused by the failure;
 - b) Notify the Manager, Environmental Regulation, Wellington Regional Council, within 24 hours after the malfunction has been detected, detailing the manner and cause of that malfunction and the steps taken to mitigate its effects and to prevent recurrence. Notification can be sent to the Wellington Regional Council at notifications@gw.govt.nz and shall include the consent reference and the name and phone number of a contact person;
 - c) Notify the members of the Community Liaison Group within 48 hours of the malfunction has been detected;
 - d) Forward an incident report to the Manager, Environmental Regulation, Wellington Regional Council, within seven (7) working days of the incident occurring, unless otherwise agreed with the Manager, Environmental Regulation, Wellington Regional Council. The report shall describe the manner and cause of the incident, measures

- taken to mitigate/control the incident (and/or illegal discharge), and measures to prevent recurrence; and
- e) Notify **Regional Public Health** within 24 hours of the malfunction has been detected.
39. Notification in accordance with Schedule 1: Condition 38 (b) and (d) shall include but not be limited to:
- a) The nature of the discharge;
 - b) Location of the discharge;
 - c) Start date and estimated time of the discharges;
 - d) End date and estimated time of the discharge (if known at the time of notification);
 - e) Estimated duration of the discharge (hours);
 - f) Maximum discharge flow (litres/second) or estimate thereof;
 - g) Mean discharge flow (litres/second) or estimate thereof;
 - h) Estimated discharge volume (m³);
 - i) Cause of overflow/discharge;
 - j) Action taken (including signs, notification of interested parties, clean-up of stream; and
 - k) The contact details of the person reporting the notification.

Review of Conditions

40. Wellington Regional Council may review any or all of the conditions of these consents consent by giving notice of its intention to do so pursuant to Section 128 of the Resource Management Act 1991, at any time within three months of the annual anniversary of the date of commencement of this consent for any of the following purposes:
- a) to deal with any adverse effects on the environment which may arise from the exercise of these consents, and which it is appropriate to deal with at a later stage;
 - b) to review the adequacy of any monitoring requirement(s) so as to incorporate into the consents any modification to any plan(s) or monitoring requirement(s) which may become necessary to deal with any adverse effects on the environment arising from the exercise of these consents;
 - c) to alter the monitoring requirement(s) in light of the results obtained from any previous monitoring; and
 - d) to require remediation measures to be undertaken if the **Annual Report prepared under Schedule 1: Condition 26 documents that unanticipated adverse effects are occurring from the exercise of these consents.**
41. No later than three years after the commencement of Stage 1B (i.e. by 1 January 2024) the Consent Holder shall provide to the Manager, Environmental Regulation, Wellington Regional Council, an independent report, reviewing the efficacy of Stage 1B land treatment in order to determine whether or not the commencement of Stage 2A should be advanced from 1 November 2030.
42. The review and report **required by Schedule 1: Condition 41** shall include, but not be restricted to, the following:
- a) A full description of the Stage 1B discharge to land regime (including storage);

- b) A summary of the compliance record of Stage 1B with the conditions of these consents, and with the requirements of any relevant Management Plan prepared under the conditions of these consents and the monitoring parameters in Schedule 2: Condition 2;
 - c) The results of any technical reports undertaken in relation to Stage 1B;
 - d) A description of any changes required to the land discharge regime, since the commissioning of Stage 1B, including:
 - (i) reasons why any such changes were required;
 - (ii) specifically, what effects (or operational constraints) those changes were required to mitigate;
 - (iii) the effectiveness of those changes in terms of the specified effect or constraint; and
 - (iv) any programmed or identified future changes and/or works required to mitigate identified adverse effects, including the purpose for each of those changes and/or works.
 - e) Confirmation of the number and volume of discharges directly to the Papawai Stream (including emergency discharges) since the commissioning of Stage 1B and a description of the circumstances leading to each such discharge;
 - f) An assessment of the effectiveness and effects of the Stage 1B land discharge regime since its commissioning, supported by monitoring data, including actual adverse effects on the water quality and aquatic ecology of the Papawai Stream and groundwater resulting from the Stage 1B discharges,
 - g) An assessment of actual adverse effects of odours and aerosols;
 - h) Any other matter considered relevant by the Consent Holder.
43. No later than 31 December 2042 the Consent Holder shall provide to the Manager, Environmental Regulation, Wellington Regional Council, an independent report prepared by a suitably qualified and experienced person or persons, reviewing the efficacy of the Stage 2B land treatment in terms of avoiding, remedying or mitigating adverse effects of the discharges to the environment.
44. The review and report shall include, but not be restricted to, the following:
- a) A full description of the discharge to land regime (including storage) under Stage 2B; including review of Stage 2A;
 - b) A summary of the compliance record of Stages 2A and 2B with the conditions of these consents, and with the requirements of any management plan prepared under the conditions of these consents;
 - c) The results of any technical reports undertaken in relation to the Stage 2A or Stage 2B discharges;
 - d) A description of any changes required to the land discharge regime, since the commissioning of Stage 2A, including:
 - (i) reasons why any such changes were required;
 - (ii) specifically, what effects (or operational constraints) those changes were required to mitigate;

- (iii) the effectiveness of those changes in terms of the specified effect or constraint; and
 - (iv) any programmed or identified future changes and/or works required to mitigate identified adverse effects, including the purpose for each of those changes and/or works.
 - e) An assessment of the effectiveness and effects of the Stage 2A and 2B land discharge schemes since their commissioning, supported by monitoring data, including actual effects on the Papawai Stream water quality and aquatic ecology and groundwater resulting from the discharges,
 - f) An assessment of actual adverse effects of odour and aerosols from the land discharge of effluent;
 - g) Confirmation of the number and volume of discharges directly to the Papawai Stream (including emergency discharges) since the commissioning of Stage 2B, a description of the circumstances leading to each such discharge; and
 - h) Any other matter considered relevant by the Consent Holder.
45. The reviews required under Schedule 1: Conditions 41 and 43 above shall be carried out and the report prepared by appropriately qualified persons and all costs shall be borne by the Consent Holder.
46. In the event that the reports prepared under Condition 41 or 43 above identify significant adverse effects on the environment as a direct result of discharges to land, water or air (including at Papawai Farm) and where no suitable means of avoiding, remedying or mitigating such effects is described within the report, the Wellington Regional Council may, within 6 months of the receipt of the report, initiate a review of conditions of these consents under section 128 of the Resource Management Act 1991, for the purpose of determining whether changes are required to the conditions of consent to address such effects, including but not limited to changes relating to the volumes of wastewater permitted to be discharged to the Papawai Stream and to land at Papawai Farm, and the volume of effluent storage in the system.
47. A copy of each review report shall be provided to the Community Liaison Group within one (1) month of it being provided to the Manager, Environmental Regulation, Wellington Regional Council and to any persons or parties who were consulted as part of the review.

Resource Management Charges

48. A resource management charge, set in accordance with section 36(2) of the Resource Management Act 1991 shall be paid to Wellington Regional Council for the carrying out of its functions in relation to the administration, monitoring and supervision of the resource consents and for the carrying out of its functions under section 35 (duty to gather information, monitor and keep records) of the Act.

Schedule 2: Conditions for WAR080254 [26633] - Discharge permit to discharge treated wastewater, and any stormwater which enters the treated or untreated wastewater stream prior to discharge, to Papawai Stream

Discharge Rate, Parameters and Regime

1. Subject to the additional restrictions during each Stage imposed by Schedule 2: Condition 4, these consents authorise the discharge of treated wastewater at:
 - a) An annual average daily flow of up to 750m³/day; and
 - b) An annual 95 percentile daily flow of up to 1,500m³/day.
2. The following monitoring parameters shall be used to assist with assessing the effects of the wastewater discharge to the Papawai Stream during Stages 1B, 2A and 2B:
 - a) The discharge should not cause the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) The discharge should not cause bacterial and / or fungal slime growths visible to the naked eye as plumose growths or mats;
 - c) The annual concentration of total ammoniacal nitrogen should not exceed 0.24 mg/l;
 - d) The concentration of total ammoniacal nitrogen should not exceed 0.400 mg/l;
 - e) The visual clarity should not be reduced by more than 30% between upstream and downstream of the discharge; and
 - f) The QMCI should not be reduced by more than 20% between upstream and downstream of the discharge.

The monitoring parameters shall apply at the GWRC monitoring site located 50m downstream of the **Greytown** WTP discharge, as shown on Schedule 6: Figure 1.

3. If monitoring undertaken under the conditions of these consents demonstrates any of the Schedule 2: Condition 2 monitoring parameters are exceeded then the Consent Holder shall undertake an investigation into the effects of the discharge from the **Greytown** WWTP, taking into account the likely effects of upstream contamination. The findings shall be reported in the annual report required by Schedule 1: Condition 26.

Advice Note 1: *The exceedence of any of the Schedule 2: Condition 2 monitoring parameters will be part of the information used by the Wellington Regional Council when deciding whether or not to undertake a review of consent conditions under Schedule 1: Condition 41.*

4. Following confirmation of commencement of Stage 2B Land Treatment in accordance with Schedule 1: Condition 3, there shall be no discharge of treated effluent to the Papawai Stream when the flow in the Papawai Stream is less than three times the median flow.
5. Any treated wastewater discharged to the Papawai Stream shall meet the following wastewater discharge standards:
 - a) The concentration of BOD₅ shall not exceed 60 g/m³ in more than 3 out of any 12 consecutive monthly test results;
 - b) The concentration of TSS shall not exceed 80 g/m³ in more than 3 out of any 12 consecutive monthly test results;

- c) The concentration of Total Ammonia-nitrogen (NH₄-N) shall not exceed 20 g/m³ in more than 3 out of any 12 consecutive monthly test results; and
- d) The concentration of TN shall not exceed 30 g/m³ in more than 3 out of any 12 consecutive monthly test results.
- e) The concentration of DRP shall not exceed 6 g/m³ in more than 3 out of any 12 consecutive monthly test results.

Advice Note 2: Compliance will be demonstrated based on the monthly samples as set out in Schedule 6: Table 1.

- 6. Should the concentrations in any sample of the treated wastewater discharged to the Papawai Stream exceed the following triggers, the Consent Holder shall undertake an investigation as to the likely causes of the exceedances. The outcomes of the investigation shall be incorporated in the Annual Report required under Schedule 1: Condition 26.

Determinant	Trigger concentration (g/m ³)
BOD ₅	90
TSS	120
Total Ammoniacal-N	30
TN	45
DRP	9.0

- 7. The Consent Holder shall install and commission a UV disinfection plant to the wastewater treatment system before 1 September 2018.
- 8. Further to Schedule 2: Condition 5, upon commissioning of the UV disinfection plant, the following standards shall apply:
 - a) For discharges up to 1,500m³/day, 5 of 10 consecutive *E coli* values shall not exceed 100 cfu per 100 millilitres, and no more than 2 out of 10 consecutive values shall exceed 1,400 cfu per 100 millilitres; or
 - b) For discharges over 1,500m³/day, UV treatment shall be applied to a minimum of 1,500m³/day and the remaining flow is not required to have UV treatment.
- 9. All wastewater discharges to the Papawai Stream under Greytown WWTP normal operating conditions shall be made via the existing surface discharge structure at the location identified in Schedule 6: Figure 1 (or alternative approved in writing by the Manager, Environmental Regulation, Wellington Regional Council).

Confirmation of Land Treatment

- 10. The Consent Holder shall confirm in writing to the Manager, Environmental Regulation, Wellington Regional Council the commencement date of any land discharge in Stages 1B, 2A and 2B, including any transitional operational requirements to give effect to land discharge. This confirmation shall be provided no less than 20 working days prior to any discharge occurring on the respective land treatment site.
- 11. A copy of the confirmation required by Schedule 2: Condition 10 shall also be provided to the members of the Community Liaison Group no less than five working days after the Manager, Environmental Regulation, Wellington Regional Council, has been advised.

Environmental monitoring

Water Quality Sampling

12. Subject to Schedule 1: Conditions 15 to 19, the Consent Holder shall collect representative grab samples from the Papawai Stream according to the frequency, and constituents and locations specified in Schedule 6: Table 1, at:
- The monitoring locations specified in Schedule 6: Table 2 and Figure 1 (until such time as the Environmental Monitoring Plan is certified pursuant to Schedule 1: Condition 7);
 - The monitoring locations specified in the Environmental Monitoring Plan (following its certification approval pursuant to Schedule 1: Condition 7); and
 - All sites shall be sampled on the same day. As far as practicable, the surface water sampling day shall coincide with the wastewater effluent sampling day.

Advice Note 3: *The intent of Condition 12 is to confirm that the monitoring frequencies, constituents and locations will be those contained with Schedule 6 of these consents until such time as the Environmental Monitoring Plan is certified by the Manager, Environmental Regulation, Wellington Regional Council. Following certification of the Environmental Monitoring Plan, Schedule 6 shall no longer form part of this consent; all environmental monitoring would then be undertaken in accordance with the approved Environmental Monitoring Plan. This condition applies to and takes precedence over all environmental monitoring conditions contained in all Schedules of this consent.*

Macroinvertebrate Sampling

13. Until the commencement of Stage 2B land discharge, the Consent Holder shall have an appropriately qualified and experienced ecologist undertake a quantitative ecological survey of the Papawai Stream every two years in the period between January 31 and April 30 inclusive at surface water locations to be specified in the Environmental Monitoring Plan certified pursuant to Schedule 1: Condition 7. These surveys should be conducted after at least a two-week period without a significant flood event (defined as an instantaneous river flow exceeding three times the estimated median flow in the Papawai Stream) and following at least a two-day discharge to water regime under normal operating conditions during the week preceding the survey for the purpose of determining the effect of the discharge on the aquatic ecosystem of the stream. The survey shall comprise as a minimum:
- An inspection of the streambed above and below the point of discharge for the presence of any nuisance macrophyte growths;
 - Sampling of macroinvertebrate communities in the Papawai Stream at points located approximately 50-100m upstream and 150-200m downstream.

Advice Note 4: *The timing of the invertebrate sampling is intended to reflect in-stream conditions under the discharge to water regime. In addition, for certainty, sampling locations are subject to change under Schedule 1: Condition 7.*

14. The macroinvertebrate sampling required by Condition 13(b) shall follow Protocols C4 (Soft-bottomed quantitative), from the Ministry for the Environment's "protocols for sampling macroinvertebrates in wadeable streams" (Stark et al. 2001). This shall involve:
- collection of five replicate sweep net samples at random within a 20m section of run habitat at each sampling site;

- b) full count of the macroinvertebrate taxa within each replicate sample to the taxonomic resolution level specified for use of the Macroinvertebrate Community Index (MCI); and
- c) enumeration of the results as taxa richness, MCI, QMCI, %EPT taxa and %EPT individuals.

Advice Note 5: *Sampling Sites upstream and downstream of the Greytown WWTP discharge are soft-bottomed sites in run habitat. There are no riffles in this section of the Papawai Stream.*

Reporting

15. The findings and results of monitoring undertaken under Schedule 2: Conditions 12 to 14 (including assessment against the parameters in Schedule 2: Condition 2) shall be incorporated and submitted in annual reports, as required by Schedule 1: Condition 26.

Review of historic monitoring sites

16. The Consent Holder shall undertake an assessment of the appropriateness of historic water quality and ecological monitoring sites in terms of providing meaningful and robust monitoring data to achieve the intent of these conditions. Any recommendations for additional, reduced, or relocated monitoring locations shall form part of the draft Environmental Monitoring Plan submitted to the Manager, Environmental Regulation, Wellington Regional Council in accordance with Schedule 1: Condition 6.

Schedule 3: Conditions for WAR080254 [33181] - Discharge permit to discharge contaminants and odours to air from oxidation ponds and other operational activities, and from land discharge of treated effluent

1. There shall be no discharges of odour to air that are noxious, dangerous, offensive or objectionable resulting from the operation of the Greytown WWTP, at or beyond the boundary of the WWTP site as designated in the Wairarapa Combined District Plan.
2. There shall be no discharges of odour to air that are noxious, dangerous, offensive or objectionable resulting from the discharge of wastewater from either the Stage 1B (Site A) or Stage 2A and 2B (Site B) Land Treatment sites, at or beyond the boundary of the respective wastewater discharge area.
3. There shall be no spray drift that is noxious, dangerous, offensive or objectionable resulting from the discharge of wastewater from either the Stage 1B (Site A) or Stage 2A and 2B (Site B) Land Treatment sites, at or beyond the boundary of the respective wastewater discharge area.
4. The management of odour from the Greytown WWTP shall be undertaken in accordance with the certified Odour Management Plan (Schedule 1: Condition 4, Table 2).

Schedule 4: Conditions for WAR080254 [33180] - Discharge permit to discharge treated wastewater to land via a land discharge system**Discharge Rate and Quality**

1. The discharge of treated wastewater to land shall only be undertaken when there is a soil moisture deficit that is greater than the depth of discharged wastewater.
2. Any treated wastewater discharged shall meet the following standards:
 - a) The concentration of BOD₅ shall not exceed 60 g/m³ in more than 3 out of any 12 consecutive monthly test results;
 - b) The concentration of TSS shall not exceed 80 g/m³ in more than 3 out of any 12 consecutive monthly test results;
 - c) *E coli* values shall not exceed 100 cfu per 100 millilitres in more than 5 of 10 consecutive monthly test results;
 - d) The nitrogen loading rate, as a consequence of:
 - (i) The exercise of this permit; and/or
 - (ii) The application of nitrogen based fertiliser; and/or
 - (iii) The disposal of any other waste; and/or
 - (iv) inputs from any stock grazing on the disposal areasshall not exceed the average monthly nutrient requirements of the specific land use at the time of discharge.
 - e) The total nitrogen loading rate across the site for any month shall not exceed the nitrogen uptake by the crop for that month.

Advice Note 1: *The standards contained in Condition 1 and 2 above shall apply only until such time as the relevant Discharge to Land Management Plan for Stage 1B, or Stage 2A and/or Stage 2B is prepared by the consent holder and certified by the Manager, Environmental Regulation, Wellington Regional Council. Following certification of the relevant Discharge to Land Management Plan, relevant discharge rate and quality standards shall be those incorporated within the current certified Discharge to Land Management Plan, not the standards and terms contained in Condition 1 and 2 above, or any superseded management plan.*

3. The detailed design of the land discharge proposed for Stage 1B shall be included in the Discharge to Land Management Plan (Schedule 1: Condition 4, Table 2).
4. The detailed design for Stages 2A and 2B land discharge shall be included within any revision to the Discharge to Land Management Plan in accordance with Schedule 1: Condition 11.
5. The design of the land discharge for Stages 1B, 2A and 2B shall be undertaken to, where practicable, ensure that the discharge of treated wastewater to the land discharge areas shall:
 - a) Be evenly distributed to the entire area being utilised for land discharge;
 - b) Not cause runoff or surface ponding;
 - c) Not lead to the development of anaerobic soil conditions; and

- d) Avoids the discharge of wastewater to land within 125m of the property boundary, except that wastewater may be discharged to land within 25m from the property boundary where:
 - (i) Median *E. Coli.* concentrations are less than 100cfu/100ml; and
 - (ii) Irrigation is at low pressure (less than 1.4 bar);
 - (iii) The irrigation **nozzle height** does not exceed 1.52m from ground level and does not incorporate an “end gun”; and
 - (iv) Where wind speed does not exceed 12m/s (or 4m/s sustained for a period of 15 minutes or more) in a direction toward an existing dwelling (at the time of commencement of these consents) on an adjoining site within 300m of the irrigation area.
6. The discharge of treated wastewater to land discharge areas shall occur in accordance with the certified Discharge to Land Management Plan (Schedule 1: Condition 4, Table 2).

Monitoring

7. The Consent Holder shall continuously measure and maintain daily records of wastewater flows entering the Greytown WWTP and the volume of the treated wastewater discharged to land discharge areas, to record the quantity of material being received and applied.
8. The Consent Holder shall record the location and volume applied to various discrete land discharge areas within the land discharge system.
9. The Consent Holder shall monitor on a monthly basis in accordance with Schedule 6: Table 1 and maintain records of the wastewater quality discharged to the land discharge areas in accordance with the approved Discharge to Land Management Plan.
10. The Consent Holder shall record crop and pasture management practices across the land discharge areas including:
 - a) Cultivation date;
 - b) Sowing date;
 - c) Fertiliser applications;
 - d) Harvesting; and
 - e) Any other management practices
11. The Consent Holder shall carry out groundwater sampling according to the constituents and frequency specified in the Environmental Monitoring Plan; and samples shall be taken in accordance with the most recent version of Wellington Regional Council’s groundwater sampling protocol.
12. The groundwater monitoring locations outlined in the Environmental Monitoring Plan shall include at least three groundwater monitoring wells (to be installed by the Consent Holder) to ensure any potential contamination leaving any of the land discharge areas is detected before it reaches any water supply bore or surface water.
13. The groundwater monitoring bore locations outlined in the Environmental Monitoring Plan shall also include existing nearby privately owned water supply bores (the actual locations

and number of sites shall be determined during the development of the Environmental Monitoring Plan).

14. During Stages 1B, 2A and 2B, the Consent Holder shall undertake soil monitoring in accordance with the Environmental Monitoring Plan during the period of September and October every second year to assess soil health and performance of the land discharge scheme.

Reporting

15. The findings and results of monitoring undertaken under Schedule 4: Conditions 7 to 14 shall be incorporated and submitted in the Annual Report (Schedule 1: Condition 26).

Schedule 5: Conditions for WAR080254 [33182] - Discharge permit to discharge treated wastewater to land via seepage from GWWTP oxidation ponds

Discharge Rate

1. The rate of discharge to land (and subsequently groundwater) from the base and sides of the oxidation and maturation ponds and base via seepage is for 24 hours per day, 7 days per week, 52 weeks per year.

Monitoring and Reporting

2. The Consent Holder shall complete, on a 10 yearly basis, a pond water balance assessment to determine the volume of seepage that may be occurring. The first of these assessments shall be completed within 36 months of the commencement of these consents.
3. Results will be analysed and reported to the Wellington Regional Council including any recommended actions, such as groundwater monitoring, as part of the first annual report (Schedule 1: Condition 26) following the conclusion of the water balance assessment and analysis.

Schedule 6: Monitoring Summary

Table 1: Sampling Parameters, Frequency and Location

Location	Inlet	Outlet	Land discharge area	Papawai Stream	Groundwater sampling (Land discharge area)
Constituent	Post inlet screening	Immediately: At outlet Post Stage 1A: Post UV		At locations in Table 2 and Figure 1 until the Environmental Monitoring Plan is certified in accordance with Schedule 1: Condition 7	At locations set out in the Environmental Monitoring Plan certified in accordance with Schedule 1: Condition 7.
Flow	Every 15 minutes	Every 15 minutes	Daily		Water level below top of casing 6 monthly during land application in summer and during winter rest period
Inspection	Daily	Daily	Daily		Before & after land application season
Pond level		Daily			
Soil moisture and Rainfall			Daily		
UV Dosage			Daily		
Biological Oxygen Demand (BOD₅)	TBC ¹	Monthly		Monthly	
Suspended Solids (TSS)	TBC	Monthly		Monthly	
<i>E. coli</i>		Monthly		Monthly	Before & after land application season
Ammoniacal Nitrogen (NH₄-N)	TBC	Monthly		Monthly	Before & after land application season
Nitrate Nitrogen (NO₃-N)	TBC	Monthly		Monthly	Before & after land application season
Nitrite Nitrogen (NO₂-N)	TBC	Monthly		Monthly	Before & after land application season
Total Nitrogen (TN)	TBC	Monthly		Monthly	Before & after land application season
Total Phosphorus (TP)	TBC	Monthly		Monthly	Before & after land application season
Dissolved Reactive Phosphorus	TBC	Monthly		Monthly	Before & after land application season

¹ Means "To be Confirmed"

Location	Inlet	Outlet	Land discharge area	Papawai Stream	Groundwater sampling (Land discharge area)
(DRP)					
Particulate Organic Matter POM		Monthly		Monthly	
pH	TBC	Monthly		Monthly	
Conductivity	TBC	Monthly		Monthly	
Temperature	TBC	Monthly		Monthly	
Dissolved Oxygen DO		Monthly		Monthly	
Clarity (black disc)	TBC	Monthly		Monthly	

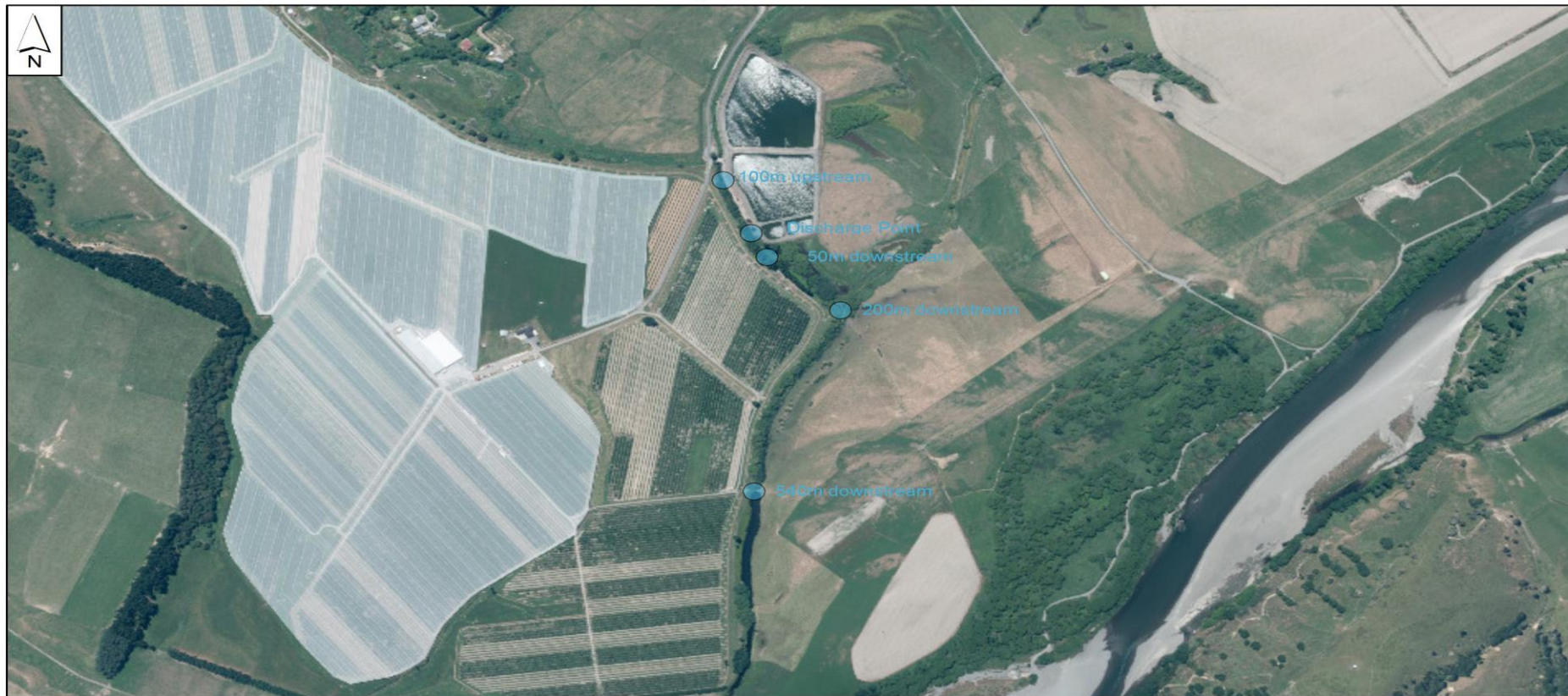
Advice Note 1: Schedule 1: Condition 19 applies to Schedule 6: Table 1 to the extent that where an approved management plan or manual (including any review in accordance with Schedule 1: Condition 11) contains a parameter, frequency, or detection limit which differs from those specific methodologies contained within this table, the management plan or manual methodology shall prevail. This is to ensure that current appropriate industry methodologies can be applied without the need for an unnecessary variation to conditions (subject to the endorsement of the Manager, Environmental Regulation, Wellington Regional Council).

Table 2: Monitoring Sites

APPROXIMATE SAMPLING SITE LOCATION	NZTM N	NZTM E
A. Wastewater Sampling Site		
Discharge to Papawai Stream	1809227	5446678
UV Treatment Plant	TBC	TBC
B. Greytown Receiving Water (Papawai Stream)		
100m Upstream of discharge	1809627	5445725
50m downstream	1809251	5446632
200m downstream	1809332	5446532
540m downstream	1809226	5446201
Upstream of the wastewater ponds on Tilson's Creek	TBC	TBC
C. Macroinvertebrate Monitoring Sampling Sites		
<i>[To be confirmed in the Environmental Monitoring Plan]</i>		
D. Groundwater Sampling Sites		
<i>[To be confirmed in the Environmental Monitoring Plan]</i>		

Advice Note 2: Schedule 1: Condition 19 applies to Schedule 6: Table 2 to the extent that where an approved management plan or manual (including any review in accordance with Schedule 1: Condition 11) contains a monitoring location which differs from those specific methodologies contained within this table, the management plan or manual methodology shall prevail. This is to ensure that current appropriate industry methodologies can be applied without the need for an unnecessary variation to conditions (subject to the endorsement of the Manager, Environmental Regulation, Wellington Regional Council).

GWWTP - Figure 1 - Monitoring sites



1:8,024 March 10, 2016
 0 0.05 0.1 0.2 mi
 0 0.1 0.2 0.4 km

Disclaimer : All reasonable efforts are made to ensure the currency and accuracy of the information printed. Please read the full terms and conditions in the disclaimer at : <http://mapping.gw.govt.nz/gw/gwpublicmap/help/Disclaimer.pdf>

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Advice Note 3: Schedule 1: Condition 19 applies to Schedule 6: Figure 1 to the extent that where an approved management plan or manual (including any review in accordance with Schedule 1: Condition 11) contains a monitoring location which differs from those shown on Figure 1, the management plan shall prevail.

Schedule 7: Community Liaison Group Terms of Reference

Purpose

The purpose of the Community Liaison Group (CLG) is to provide a forum for discussion and the exchange of information and to create and maintain channels of communication between the community, South Wairarapa District Council (SWDC), and Greater Wellington Regional Council (GWRC) on any issues or developments arising from the operation of the Greytown Wastewater Treatment Plant (MWWTP) and the discharge of treated effluent to land both at the GWWTP site (during Stage 1B) and at Papawai Farm (during Stage 2A and 2B). The CLG does not have a regulatory function.

The CLG will work in a collaborative manner with the CLG for the Featherston and Martinborough WWTP's, including joint meetings and resourcing. This is intended to provide efficiency, and also facilitate the catchment approach outlined in the SWDC Wastewater Strategy.

Membership

The CLG will be open to the following members:

- Greytown Community Board (1 representative)
- Greytown & Papawai residents (Any submitter and/or two resident representatives)
- South Wairarapa District Council (1 representative)
- Wellington Regional Council (1 representative)
- Kahungunu ki Wairarapa (1 representative)
- Rangitane o Wairarapa iwi (1 representative)

Where a community representative steps down, the position will be filled with a replacement person agreed by the majority of the remainder of the CLG. The Chairperson will be appointed by a majority of the CLG, provided however, that if considered necessary and appropriate, SWDC may appoint an independent Chairperson from outside of the CLG membership.

Activities

The CLG meetings will provide a forum for:

- a) Updating CLG members about Greytown WWTP and its upgrade and operation, including progress and notice of any changes to work schedules and/or general compliance with resource consents;
- b) Discussion of specific questions and/or issues arising from the operation and upgrade of Greytown WWTP on behalf of the community;
- c) Explaining technical matters to the members of the CLG;
- d) Collating comments to be provided to GWRC on any of the management plans set out in the conditions of these resource consents, within the required Schedule 1: Condition 4 Table 2 timeframe;
- e) To discuss compliance/non-compliance with conditions of consent and for SWDC to explain actions taken or to be taken to comply with conditions; and
- f) Identifying relevant items to be included on the relevant SWDC website project page

Role/responsibility of SWDC

- a) Organise administrative support at meetings, including recording of minutes and circulating minutes within appropriate timeframes;
- b) Maintain and regularly update the SWDC website to include relevant information relating to the Greytown WWTP;

- c) Provide project staff/advisers to attend meetings as required to respond to technical questions raised;
- d) Make technical staff available to the CLG to explain any technical reports, management plans, technical processes and current Greytown WWTP upgrading status;
- e) Provide copies of the reports and plans required by Schedule 1 to the CLG members. Where appropriate this will be email link rather than hard copy;
- f) Follow up relevant action items in an appropriate timeframe; and
- g) Advise the CLG of actions / feedback following any issues raised in this forum

Role/responsibility of Chairperson

Advice Note 1: *The suggested role of the Chairperson is:*

- a) *The orderly running of the meetings in a fair and independent way.*
- b) *Ensure adherence to the agenda and enforcement of the Group's Terms of Reference.*
- c) *Manage the collation and distribution of comments from the CLG on the various management plans;*
- d) *Work with CLG members to set meeting agenda items;*
- e) *Monitor progress on action items to ensure they are undertaken within*
- f) *appropriate timeframes; snf*
- g) *Final sign-off and authority for any matters on behalf of the CLG.*

Role/responsibility of GWRC

Advice Note 2: *The suggested role of the GWRC is:*

- a) *Providing a conduit between SWDC and the GWRC by disseminating information from the CLG and keeping colleagues informed;*
- b) *Making technical staff available to the CLG as required;*
- c) *Keeping the CLG informed of compliance / non-compliance with conditions; and*
- d) *Explaining any reasons for compliance decisions or actions taken by GWRC.*

Role/responsibility of iwi and community representative members

Advice Note 3: *The suggested role of iwi and community representatives is:*

- a) *Representing their iwi, communities, organisations or interest groups and bringing forward issues, concerns and ideas raised by their members to CLG meetings;*
- b) *Providing a conduit between SWDC, iwi, and the community by disseminating information from the CLG and bringing feedback to meetings;*
- c) *Passing updates and information discussed at the meetings to iwi and the community;*
- d) *Reporting iwi and community concerns and issues to the CLG;*
- e) *Assisting the CLG with any relevant local knowledge;*
- f) *Providing input into the Greytown WWTP project updates for the SWDC website; and*
- g) *Co-ordinating iwi and community input into the Schedule 1 Management Plans and assisting with providing related comments to GWRC through required reporting.*

General role/responsibility of all CLG members

Advice Note 4: *The suggested role of all CLG representatives is:*

- a) *Committing to abide by the Terms of Reference;*
- b) *Regularly attending and participating in CLG meetings;*
- c) *Advising the Chairperson in advance if they are not attending a meeting;*
- d) *Suggesting agenda items for discussion at CLG meetings;*
- e) *Respecting the confidentiality of items of business which SWDC may determine are confidential in nature;*

- f) *Abiding by the CLG's media and public speaking protocol; and*
- g) *Ensuring that any define timeframes are met.*

Meeting procedure

- a) The CLG will meet quarterly from its inauguration or as otherwise agreed by the CLG members. Members who cannot attend a meeting should give their apologies in advance to the Chairperson. Community representatives may send a nominee to a meeting in their place.
- b) All questions asked during or in between meetings should be directed *via* the Chairperson. Questions without notice received during meetings may be addressed if possible, otherwise added to the agenda for a later meeting.
- c) SWDC will provide the secretariat for the CLG. SWDC is responsible for the cost of all administration of the meetings.
- d) Detailed minutes will be kept by SWDC as a record of the meeting and these will be ratified at the following meeting, subject to any amendment proposed by any member of the CLG.
- e) Meeting agendas, papers and notes will be distributed by SWDC to CLG members no less than three days prior to or following each meeting.
- f) Confirmed agendas and minutes will be loaded into the Greytown WWTP project webpage by SWDC. CLG members may distribute these confirmed documents more widely.
- g) Members of the public wishing to attend a meeting should advise a CLG representative and / or the Chairperson in advance. The Chairperson should advise the rest of the CLG of this in advance of the meeting commencing.
- h) Members of the public will have no speaking rights. Any questions from members of the public should be sent in advance to the Chairperson or should be directed through a CLG community representative. The CLG retains the right to *revert* to closed meetings at any time and also close the meeting to the public for parts of the meeting at any time.

Remuneration

SWDC will not be responsible for any remuneration payable to CLG members for attendance at or participation in the CLG.

Greytown WWTP Project Updates

SWDC will develop and maintain a project webpage highlighting programs, status, and issues relating to the GWWTP project. The cost of producing and maintaining the webpage will be met by SWDC.

Media and public speaking

All media enquiries should be directed directly to SWDC. Community representatives, including the chair of the CLG approached to provide comment on the project, consents, or the CLG should make clear their response is a personal *view*, rather than the collective *view* of the CLG. As a courtesy, community representatives asked for media or public comment,

should advise the Chairperson prior to providing comment, or as soon as possible afterwards (if it is not practicable to *advise* prior).

Review

These terms of reference may be reviewed and amended, as agreed by all CLG members.