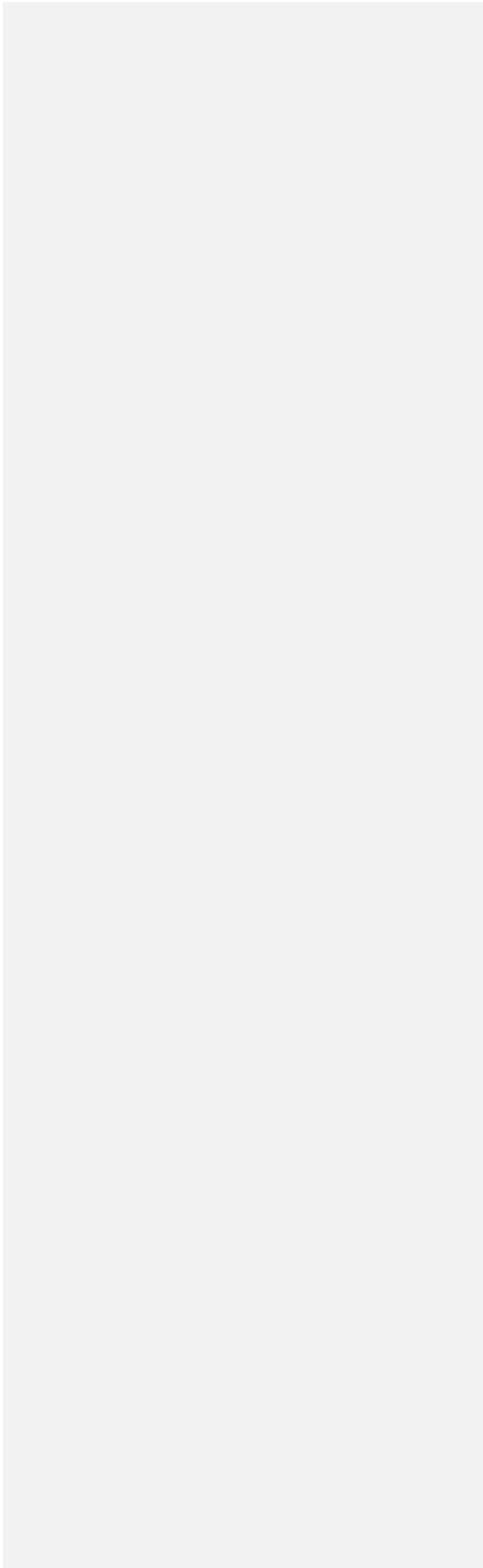




Part C - Conditions

Evidence Version

3 April 2019



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Evidence Version

3 April 2019

Issue and Revision Record

Revision	Date	Originator	Checker	Approver	Description

Document reference: ~~366441~~ | ~~366441~~ | ~~1~~ | ~~1~~ | ~~1~~ | ~~B~~

Information class: Standard

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Glossary

AAF	Annual Average Flow
Air Plan	Greater Wellington Regional Council Operative Regional Air Quality Management Plan (2000).
BOD ₅	5 day Biological Oxygen Demand
BPO	Best Practicable Option
CDC	Carterton District Council
CIA	Cultural Impact Assessment
CLAWD	Combined Land and Water Discharge
Discharges to Land Plan	Greater Wellington Regional Council Operative Regional Plan for Discharges to Land (1999)
DIN	Dissolved Inorganic Nitrogen
DO	Dissolved Oxygen
DRP	Dissolved Reactive Phosphorous
EC	Electrical Conductivity
EDC	Endocrine Disrupting Chemicals
Freshwater Plan	Greater Wellington Regional Council Operative Freshwater Plan (2014)
FWWTP	Featherston Wastewater Treatment Plant
GWRC	Greater Wellington Regional Council
GWWTP	Greytown Wastewater Treatment Plant
HMF	Half Median Flow
HRT	Hydraulic Retention Time
I&I	Inflow and Infiltration
IIRMP	Inflow and Infiltration Reduction Management Plan
LEI	Lowe Environmental Impact Ltd
LTP	Long Term Plan
MCI	Macroinvertebrate Community Index
MfE	Ministry for Environment
MWWTP	Martinborough Wastewater Treatment Plant
NES-CS	National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health Regulations 2011
NES-DW	National Environmental Standard for Sources of Drinking Water of Human drinking Water 2007
NH ₄ -N	Ammoniacal Nitrogen

NO ₃ -N	Nitrate Nitrogen
NOF	National Objectives Frameworks
NPS-FM	National Policy Statement for Freshwater Management 2011
OMM	Operations Maintenance Manual
OMP	Odour Management Plan
PGWES	Professional Ground Water and Environmental Services Ltd
PNRP	Greater Wellington Regional Council Proposed Natural Resources Plan (notified 2016)
QEII	Queen Elizabeth II
QMCI	Quantitative Macroinvertebrate Community Index
RMA	Resource Management Act (1991), including subsequent amendments
RPS	Wellington Regional Policy Statement
scBOD ₅	5 day soluble carbonaceous Biological Oxygen Demand
SWDC	South Wairarapa District Council
TNH ₄ -N	Total Ammoniacal Nitrogen
TN	Total Nitrogen
TON	Total Oxidised Nitrogen
TP	Total Phosphorous
TSS	Total Suspended Solids
WCDP	Wairarapa Combined District Plan, Updated Version Operative in Part (2011)
WWTP	Wastewater Treatment Plant

Part One: C – Proposed Consent Conditions

Definitions

In the following conditions, the expressions below have the meaning given:

Definitions:	
WWTP	Wastewater Treatment Plant
FWWTP	Featherston Wastewater Treatment Plant
BOD ₅	Five days Total Biochemical Oxygen Demand
scBOD ₅	Five days soluble carbonaceous Biochemical Oxygen Demand
NH ₄ -N	Total Ammoniacal Nitrogen
NO _x -N	Total oxidised nitrogen
TN	Total Nitrogen
TP	Total Phosphorus
DRP	Dissolved Reactive Phosphorous
TSS	Total Suspended Solids
<i>E.coli</i>	<i>Escherichia coli</i>
DO	Dissolved oxygen
UV	Ultra-violet
g/m ³	Grams per cubic metre
L/s	Litres per second
Manager	Manager Environmental Regulation, Wellington Regional Council

Schedule 1: General Conditions for WAR120294 [31760, 31761, XXXXX and 31762]

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 the following information provided by the applicant:
 - Featherston Wastewater Treatment Plant Proposed operation, upgrade and maintenance to 2051; Application for Resource Consents, Activity Description and Assessment of Environmental Effects; Mott MacDonald; **DATE TBC**, including Appendices 1 to 17;
 - **[to be completed with relevant additional information requested by GWRC through the consent process, if any]**
 - any additional information and changes to the proposal provided by the Applicant by way of written evidence or submissions.

Where there are inconsistencies between the application and the further information provided by the applicant, the most recent information applies. In addition, if there are 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 change of consent conditions pursuant to Section 127 of the Resource Management Act 1991, or, if the changes exceed the scope of change of conditions, a new consent under section 13 of the Act.

Upgrade Staging

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

Table 1: Land Management Stage Commissioning Programme

Stage Name	Stage Description	Stage to commence (time from commencement of consents):
Stage 1 (1A and 1B)	Plant Optimisation and minor capital works; Discharge of treated effluent to 8ha of Site A and 70ha of Site B; and commencement of Sewerage Network Rehabilitation Programme	2 years (commencing November of that year <u>or agreed with Greater Wellington Regional Council</u>)
Stage 2A	Discharge of treated effluent to up to 116ha of Site B (without deferred storage) and completion of Sewerage Network Rehabilitation Programme	4 5 years
Stage 2B	Discharge of treated effluent to up to 116ha of Site B with deferred storage	20 13 years

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Advice Note 2: The location of Sites A and B are presented in Schedule 7: Figure 3. Discharges of treated effluent to Site A may continue as part of Stages 2A and 2B to the extent allowed for in the Discharge to Land Management Plan required under Schedule 1: Condition 3.

Management and Operations Plans

3. 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, 4 and 5; 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)
Featherston WWTP Operations and Maintenance Manual	6 Months
Odour Management Plan	6 Months
Inflow and Infiltration Reduction Management Plan	12 Months
Environmental Monitoring Plan	12 Months
Tangata Whenua Values Monitoring Plan	18 Months
Discharge to Land and Water Management Plan	18 Months
<u>Riparian Planting Plan</u>	<u>18 Months</u>

4. The Consent Holder shall submit a draft copy of each of the manuals and plans listed in Schedule 1: Condition 3 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 5. Comments received from the Regional Council shall be addressed and clearly incorporated into the final copy of each of the manuals and plans, along with a clear explanation of where any suggestions have not been incorporated and the reasons why. Final plans and explanations shall be supplied to the Manager, within their respective timeframes listed in Schedule 1: Condition 3.

Advice Note 3: For the purpose of this condition, the Council has 5 working days to provide its comments to the consent holder to enable the consent holder sufficient time to make changes to the plan in response to the comments received from Council and have these changes reviewed by a suitably qualified independent person prior to submission to the Manager for technical certification.

5. The manuals and plans listed in Schedule 1: Condition 3 Table 2 shall be submitted within their respective timeframes to the Manager, Environmental Regulation, Wellington Regional Council for their written technical certification.
- Certification shall not be unreasonably withheld. Should certification of any manual or plan be withheld, the Consent Holder shall submit a revised or reviewed manual or plan to the Manager, for technical certification as soon as is practicable. Should certification of the revised or reviewed 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 shared equally between the Consent Holder and Wellington Regional Council;
 - Except with the written approval of the Consent Authority, activities which are subject to a plan shall not commence until the plan has received technical certification. This does not apply to the Featherston WWTP Operations and Maintenance Manual;
 - The manuals and plans are subject to periodic review and updating as set out in Schedule 1: Condition 9. The certification process for updating or making variation to a manual or plan shall follow the process outlined above; and
 - 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 4: For the purpose of this condition "technical certification" means confirmation that the management or monitoring plan:

- achieves the objectives of the plan listed in Schedule 1: Condition 6 Table 3; and
- provides for the minimum contents for the plan as listed in Schedule 1: Condition 7 Table 4.

6. 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
Featherston WWTP Operations and Maintenance Manual	To outline the operation and maintenance of the Featherston WWTP and wastewater discharge systems.
Odour Management Plan	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. The Plan must: <ul style="list-style-type: none"> a. Identify the potential risks associated with odour and aerosols associated with the operation of the Featherston WWTP and land treatment system, including procedures to minimise those effects; and b. Protocols for responding to complaints and other incidents.
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 Featherston WWTP and its discharges to water and land that are of concern to these iwi entities.
Inflow and Infiltration Reduction Management Plan	To determine the extent of inflow and infiltration into the sewer network outline the investigation process for determining the most efficient, cost effective and non-disruptive manner for sewer network rehabilitation, outline the proposed rehabilitation works and measure and report on the effectiveness of the improvements in terms of reducing influent flows to the FWWTP.
Environmental Monitoring Plan	To document the environmental monitoring to be undertaken to monitor the effects of the Featherston WWTP on the environment from the activities authorised by these consents and document the reporting requirements.
Discharge to Land and Water Management Plan	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. The Plan must: <ul style="list-style-type: none"> a. Address the specific site conditions and limitations for all land discharge areas which are proposed to receive wastewater; (including those listed above). b. Detail the Featherston WWTP wastewater discharge to land methods and systems; c. Define storage volumes for Stage 2B; d. Establish a discharge regime for Stage 2B contingency discharges of treated wastewater to target when Donald Creek flows are greater than 3x median and wherever practicable greater than 2x median most of the time; and
Riparian Planting Plan	To develop, in consultation with GWRC and Kahungunu ki Wairarapa and Rangitane o Wairarapa, a riparian programme that is responsive to the effects of the Featherston WWTP and its discharges to water.

7. The Schedule 1: Condition 6 Table 3 plans and manuals shall:

- a. Be developed to achieve the following over-riding objectives.
 - i. From Stage 1 onwards minimise treated wastewater discharges to Donald Creek so far as is reasonably practicable within the constraints of the conditions of this consent, land availability on the Stage 1 sites and storage within the existing ponds at their existing bund level; and
 - ii. From Stage 2A onwards minimise treated wastewater discharges to Donald Creek, so far as is reasonably practicable within the constraints of the conditions of this consent, land availability on the Stage 1 and 2A sites and storage within the existing ponds at their existing bund level; and
 - iii. From Stage 2B onwards, avoid where practicable, wastewater discharges to the Donald Creek at times of stream flow less than 2 times median flow and target stream flow greater

than 3 times median flow measured in Donald Creek at [Longwood Road West](#) ~~the flow gauging site described and installed for Schedule 2 Condition 11~~ (or other location deemed suitable).

- b. As a minimum include, but not be limited to, the information listed in Schedule 1: Condition 7 Table 4.

Table 4: Minimum contents of Management and Monitoring Plans

Management Plan	Minimum Contents
Featherston 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. Operational and compliance monitoring. e. Plant condition inspections and maintenance. f. Trouble shooting guide. g. Roles and responsibilities. h. On-site staff training procedures. i. Details of a complaints register. j. How emergency discharges will be dealt with. k. A protocol (and programme) for reviewing the effectiveness of the manual.
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 irrigation infrastructure. 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. e-f. Consultation methods with Longwood House owners and Heritage New Zealand.
Tangata Whenua Values Monitoring Plan	<ul style="list-style-type: none"> a. Effects of the Featherston 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 Featherston WWTP, the land discharge area, Donald's Creek and Lake Wairarapa. 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/rehabilitation 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 and reporting on the effectiveness of the inflow and infiltration reduction initiatives over time.
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 Donald Creek flow and quality monitoring and Abbot Creek quality monitoring. c. Donald and Abbot Creek ecological monitoring including macroinvertebrate and periphyton monitoring. d. Groundwater monitoring including for the land discharge areas, pond seepage, nearby bores and wells. e. Soil and pasture health monitoring.

Management Plan	Minimum Contents
	<ul style="list-style-type: none"> f. Method to determine the Land Application Area annual site nitrogen budget giving the nitrogen inputs and removal for each month as well as the deficit/surplus each month. g. Reporting of data, effects and consent compliance. h. A protocol (and programme) for reviewing the effectiveness of the monitoring plan.
Discharge to Land and Water Management Plan	<ul style="list-style-type: none"> a. Description of Site A and B including any watercourses present; the pumping, conveyance and discharge infrastructure; and the land discharge regime. b. Wastewater discharge to land management including: <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 (including grazing and buffer zones); ix. high speed wind shutdown; x. odour and aerosol management; xi. system maintenance; xii. public health risk management; and xiii. access restrictions to land receiving wastewater. c. Wastewater discharge to water management including: <ul style="list-style-type: none"> i. Wastewater flow rate monitoring; ii. Donald Creek flow monitoring details including stage recorder and rating curve details; iii. For Stage 2B Donald Creek flows below which wastewater discharges will be avoided, so far as is practicable; and iv. For Stage 2B maximum wastewater discharge rates. v. Wastewater discharge channel maintenance. d. Wastewater Storage Management <ul style="list-style-type: none"> i. Details (by December 2040) of the additional storage volume required for Stage 2B; ii. Procedures for pond level management; e. Land discharge area site inspections including: <ul style="list-style-type: none"> i. regular walkovers; ii. inspections after heavy rain, and iii. odour monitoring. f. Water discharge area site inspections including: <ul style="list-style-type: none"> i. Wastewater discharge channel. g. A protocol (and programme) for reviewing the effectiveness of the management plan. h. Consultation methods with Longwood House owners and Heritage New Zealand. h-i. Details of the tree screening around buffer areas and property boundaries.
Riparian Planting Plan	<ul style="list-style-type: none"> a. Location details for within the SWDC scheme site or otherwise agreed with Greater Wellington Regional Council b. Number and type/species of native plants c. Maintenance and weed control programme

8. All the plans and manuals listed in Schedule 1: Condition 3 Table 2, shall be prepared by a suitably qualified and experienced person or persons with expertise in the matters that the individual documents address.

9. All the plans and manuals listed in Schedule 1: Condition 3 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 2, 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.
10. Where there are any contradictions or inconsistencies between the certified plans and manuals listed in Schedule 1: Condition 3 Table 2 and conditions of these consents, then the technically certified management plan or manual shall prevail.

Advice Note 5: *The intent of this condition is to ensure that procedures and appropriate industry methodologies certified by Council can be applied over the term of consent without the need for an unnecessary variation to conditions.*

Use of treated effluent on crops intended for human consumption

11. The following (or similar wording with the same intent and outcome) shall be included within the Discharge to Land and Water Management Plan to be prepared in accordance with Schedule 1: Conditions 3, 6 and 7:

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).

Monitoring and Recording

12. The Consent Holder shall monitor and record wastewater flow and quality according to the frequency and constituents specified in Schedule 6: Table 1, at:
 - a. the locations specified in Schedule 1: Condition 16, and Schedule 6: Table 2 and Figure 1 (until such time as the Environmental Monitoring Plan is certified pursuant to Schedule 1: Condition 5) for monitoring flows; and,
 - b. the locations specified in Schedule 2: Condition 9, Schedule 4: Condition 12, and Schedule 6: Table 2 and Figure 1 (until such time as the Environmental Monitoring Plan is certified pursuant to Schedule 1: Condition 5) for monitoring wastewater quality; and
 - c. the monitoring locations specified in the Environmental Monitoring Plan (following its certification pursuant to Schedule 1: Condition 5).
13. 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 12.
14. 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.
15. 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, Wellington Regional Council.

Wastewater Volume Measurement

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

a. inlet inflow	From commencement of these consents
b. discharge outflow to Donald Creek	From commencement of these consents
c. land treatment volume	Prior to any discharge of treated effluent to land (for all Stages)

17. From commencement of these consents, the Consent Holder shall install a datalogger and flow measuring device at all wastewater discharge flow measurement points that is compatible with the Wellington Regional Council's Water Data Management System. The datalogger shall record the treated wastewater discharge averaged over time intervals of no less than 15 minutes. The data shall be provided automatically on a daily basis in a format compatible with the Water Use Data Management System; and
18. Where the flow measuring device measures flow in a pipe, measurement error is to be no more than +/- 5% as an average across the flow range, 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.
19. The Consent Holder shall verify the accuracy of the flow measuring device required under Schedule 1: Conditions 16 and 18 by:
- a. Inlet inflow - October 2019.
 - b. Discharge outflow to Donald Creek – ~~March 2017~~ October 2019.
 - c. Land Treatment volume - Installation of the flow measuring device.

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 the margin of error stated in Schedule 1: Condition 18.

- d. 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
 - e. A copy of the verification certificate/and or evidence documenting the calibration as completed by the person who undertook the verification shall be incorporated and submitted in the next Annual Monitoring Report following the calibration (Schedule 1: Condition 22).
20. Flow volume measuring equipment and datalogger units installed to comply with Schedule 1: Conditions 16, 17 and 18 shall be maintained by a suitably qualified person in accordance with the Featherston WWTP Operations and Maintenance Manual (which shall include reference to manufacturer's specifications and industry best practice guidelines) for the duration of these consents.

Reporting

21. 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 this consent, with all monitoring data provided in a suitable electronic format; and
 - 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 22 a schedule summarising any complaints received during the quarter.

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

Advice Note 6: 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 incorporated, it shall be clearly separately identified for compliance monitoring purposes.

22. 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 including analysis of all monitoring (including trends within the annual period and compared to previous years) undertaken in accordance with the conditions of these consents or any management plan prepared under the conditions of this consent, and shall make 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;
 - b. where non-compliance with conditions of these consents results, reasons for this non-compliance shall be given, a discussion on the potential significance of this non-compliance including any corresponding trends or changes in environmental effects evident from the monitoring data (both within the annual period and compared to previous years), and actions taken;
 - c. 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;

- d. 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 9;
- e. a schedule of any complaints recorded during the year and any follow up actions undertaken;
- f. any other issues considered important by the Consent Holder; and
- g. 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

23. Within three 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.

Advice Note 7: 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.

24. The Terms of Reference shall be incorporated into the Featherston WWTP Discharge to Land and Water Management Plan, and amendments to the Term of Reference may be undertaken and incorporated within the Featherston WWTP Discharge to Land and Water Management Plan, without the need to vary the conditions of these consents.
25. Within 1 month of commencement of this consent a Featherston 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

26. For the duration of these consents, the Consent Holder shall:
- a. maintain signage on the true right stream banks of Donald Creek in the immediate vicinity of the treated wastewater outfall 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 discharge;
 - iii. provide a 24-hour contact phone number; and
 - iv. be visible to the public visiting 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 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. Such signage shall be clearly visible at all vehicle entry points to the sites from public roads.
27. 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 Manger, Environmental Regulation, Wellington Regional Council, within one month of the erection of the signs.

Access

28. The vehicle access gate to the Featherston 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.
29. Stock access to the Featherston WWTP oxidation ponds and discharge channel shall be restricted, except that grazing of the embankments of the ponds 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.
30. The Consent Holder shall install and maintain fencing within the boundaries of Site A and Site B to restrict stock access to:
 - a. the true left and right banks of Donald Creek and Abbot Creek from the commencement of Stage 1; and
 - b. the deferred storage pond(s) for treated wastewater following the commissioning of the Stage 2B upgrade of the Featherston WWTP, except that grazing of the embankment by stock shall be permitted under the management of the Consent Holder.

On-site meeting with WWTP Operations Contractor

31. 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

32. The Consent Holder shall keep a record of any complaints that are received with respect to the operation of the Featherston 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 (including approximately wind speed and direction);
 - e. any measures taken to address the cause of the complaint;
 - f. details of any follow-up communications with the complainant.

A schedule of all complaints shall be provided with the quarterly report required by Schedule 1: Condition 21 including the details listed above.

33. 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.
34. The Consent Holder shall forward to the Manager, Environmental Regulation, Wellington Regional Council, a summary of any complaints received, any outstanding follow-up items, or report on any

operational aspects resulting in persistent complaints in the annual report required by Schedule 1: Condition 22.

System Failure

35. 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 Regional Public Health within 24 hours of the malfunction being detected.
 - d. Notify the members of the Community Liaison Group within **48 hours** of the malfunction has been detected;
 - e. Forward an incident report to the Manager, Environmental Regulation, Wellington Regional Council, within **seven 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
36. Notification in accordance with Schedule 1: Condition 35 (b) and (e) 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

37. Wellington Regional Council may review any or all of the conditions of these consents by giving notice of its intention to do so pursuant to Section 128 of the Resource Management Act 1991, in December of each year 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

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38. No later than ~~3-8~~ years from the commencement of ~~Stages 1 consent~~ Land Treatment 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 Stage 1 ~~and Stage 2A~~ land treatment in order to assist the Consent Holder in deciding whether or not the commencement of Stage 2B should be advanced ~~from Year 13, to the following timeframe:~~

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- a. ~~Stage 2A – Reduced from 10 years to 7 years from consent commencement~~
- b. ~~a. Stage 2B – Reduced from 20-13 years to 15-11 years from consent commencement.~~

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39. The review and report required by Schedule 1: Condition 38 shall include, but not be restricted to, the following:
- a. The conclusions and recommendations of any technical reports undertaken in relation to Stage 1 ~~and Stage 2A~~;
 - b. A description of any changes required to the land discharge regime, since the commissioning of Stage 1 ~~and 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.
 - c. An assessment of the effectiveness and effects, including environmental improvements, of the Stage 1 ~~and Stage 2A~~ land discharge regime since its commissioning, supported by monitoring data;
 - d. An assessment of actual adverse effects of odours and aerosols;
 - e. Any other matter considered relevant by the Consent Holder.
40. No later than 3 years from the commencement of Stage 2B 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.
41. The review and report required by Schedule 1: Condition 40 shall include, but not be restricted to, the following:
- a. The conclusions and recommendations of any technical reports undertaken in relation to the Stage 2A or Stage 2B discharges;
 - b. A description of any changes required to the land discharge regime, since the commissioning of Stage 2B, 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.
 - c. An assessment of the effectiveness and effects, including environmental improvements, of the Stage 2B land discharge scheme since its commissioning, supported by monitoring data;
 - d. An assessment of actual adverse effects of odour and aerosols;
 - e. Any other matter considered relevant by the Consent Holder.
42. A copy of each review report shall be provided to the Community Liaison Group within one month of it being provided to the Manager, Environmental Regulation, Wellington Regional Council and to any other persons or parties who were consulted as part of the review.

Resource Management Charges

43. 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 WAR 120294 [31760] - Discharge permit to discharge treated wastewater from the Featherston WWTP, and any stormwater which enters the treated or untreated wastewater stream prior to discharge, to Donald Creek

Discharge Rate, Parameters and Regime

1. Following confirmation of commencement of Stage 1 and 2A Land discharge in accordance with Schedule 1: Condition 2, these consents authorise the discharge of treated wastewater to Donald Creek of up to:

Table 5: Discharge Volumes

	Annual Average Daily Flow (m ³ /d)	90%ile (m ³ /d)
Prior to Stage 2A commencement	3,300	7,700
Following Stage 2A commencement	1,400	5,200

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2. Following confirmation of commencement of Stage 2B Land Discharge in accordance with Schedule 1: Condition 2:

- a. There shall be no discharge of treated effluent to Donald Creek during summer months.
- b. Discharges of treated effluent to Donald Creek shall not exceed a maximum discharge rate of 6,000 m³/d or 70 l/s.
- c. So far as is reasonably practicable, discharges of treated effluent to Donald Creek shall in order of priority, target discharges when Donald Creek flows are greater than 3x median, and preclude discharges to Donald Creek at flows less than 2x median.

Advice Note 1: Three times and two times median flow will be determined from stream flow monitoring data collected in accordance with Condition 10.

3. Any treated wastewater discharged to Donald Creek up to one year following the commencement of the proposed inflow and infiltration sewer rehabilitation works shall meet the following wastewater discharge standards:

- d. The concentration of BOD₅ shall not exceed 35 g/m³ in more than 3 out of any 12 consecutive monthly test results;
- a. The concentration of TSS shall not exceed 100 g/m³ in more than 3 out of any 12 consecutive monthly test results;
- b. The concentration of Total Ammonia-nitrogen (NH₄-N) shall not exceed 12 g/m³ in more than 3 out of any 12 consecutive monthly test results; and
- c. The concentration of TN shall not exceed 15 g/m³ in more than 3 out of any 12 consecutive monthly test results.
- d. The concentration of DRP shall not exceed 4 g/m³ in more than 3 out of any 12 consecutive monthly test results.

4. One year following the commencement of the proposed inflow and infiltration sewer rehabilitation works any treated wastewater discharge to Donald Creek shall meet the following wastewater discharge standards:

- a. The concentration of BOD₅ shall not exceed 35 g/m³ in more than 3 out of any 12 consecutive monthly test results;
- e. The concentration of TSS shall not exceed 100 g/m³ in more than 3 out of any 12 consecutive monthly test results;

- f. The concentration of Total Ammonia-nitrogen (NH₄-N) shall not exceed 18 g/m³ in more than 3 out of any 12 consecutive monthly test results; and
- g. The concentration of TN shall not exceed 25 g/m³ in more than 3 out of any 12 consecutive monthly test results.
- h. The concentration of DRP shall not exceed 6 g/m³ in more than 3 out of any 12 consecutive monthly test results.

Advice Note 3: Compliance will be demonstrated based on the monthly samples as set out in Schedule 6: Table 1.

- 5. The following UV treatment standards shall apply:
 - a. For discharges up to 140L/s no more than 5 of 10 consecutive E.coli values shall 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 140L/s, UV treatment shall be applied to a minimum of 140L/s and the remaining flow may have no UV treatment.
- 6. All discharges to Donald Creek under Featherston WWTP normal operating conditions shall be made via the existing surface discharge channel at the location identified in Schedule 6: Figure 1.
- 7. The following monitoring targets shall be used to assist with assessing the effects of the wastewater discharge to Donald Creek for the purpose of triggering Schedule 2 Condition 8:
 - a. Following commencement of Stage 1 and Stage 2B, the pH adjusted annual concentration values for total ammoniacal nitrogen listed in Table 2.
 - b. Following commencement of Stage 1, periphyton cover as measured by the Peri WCC index of less than 30% cover at the downstream site unless this value is exceeded at the upstream site.
 - c. Following commencement of Stage 1, the QMCI reduced as a result of the discharge by more than 20% between similar sites upstream and downstream of the discharge.
 - d. Following commencement of Stage 2B, the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials.
 - e. Following commencement of Stage 2B, the presence of bacterial and / or fungal slime growths visible to the naked eye as plumose growths or mats.

The monitoring targets shall apply at the water quality and ecological monitoring sites downstream of the Featherston WWTP, as shown on Schedule 6: Figure 1 and 2.

Advice Note 4: The percentage change in QMCI shall be calculated from the average of the two upstream and two downstream sites.

Table 2: Total Ammoniacal Nitrogen Trigger Values for different Stages of development

Stage	Following Competition Completion of Stage 1				Following Competition Completion of Stage 2B	
Source	NPS National Bottom Line		NIWA Indicative Guideline for protection of the Fingernail Clam		NIWA Indicative Guideline for protection of Freshwater Mussels (kākahi)	
Statistic for assessment	Annual Median ¹	Annual Maximum ¹	Annual Median ¹	Annual 95 th percentile ¹	Annual Median ¹	Annual 95 th percentile ¹
pH	Concentration (g/m3)					
6.7	2.38	5.81	1.43	2.43	0.63	1.06
6.8	2.33	5.70	1.40	2.38	0.62	1.04
6.9	2.26	5.52	1.36	2.31	0.60	1.00
7.0	2.18	5.32	1.31	2.23	0.58	0.97
7.1	2.08	5.08	1.25	2.13	0.55	0.92
7.2	1.99	4.86	1.19	2.03	0.53	0.88
7.3	1.88	4.60	1.13	1.92	0.50	0.84
7.4	1.75	4.27	1.05	1.78	0.47	0.78
7.5	1.61	3.94	0.97	1.65	0.43	0.72
7.6	1.47	3.59	0.88	1.50	0.39	0.65
7.7	1.32	3.23	0.79	1.35	0.35	0.59
7.8	1.18	2.88	0.71	1.21	0.31	0.52
7.9	1.03	2.51	0.62	1.05	0.27	0.46
8.0	0.90	2.20	0.54	0.92	0.24	0.40
8.1	0.78	1.91	0.47	0.80	0.21	0.35
8.2	0.66	1.61	0.39	0.67	0.18	0.29
8.3	0.56	1.36	0.33	0.57	0.15	0.25

Note 1 - Based on a minimum of 12 samples per year collected monthly.

- 8. If monitoring undertaken under the conditions of these consents demonstrates any of the Schedule 2: Condition 7 trigger values are exceeded then the Consent Holder shall undertake an investigation into the effects of the discharge from the Featherston WWTP, taking into account the likely effects of upstream contamination and having regard to the extent of any improvements in QMCI and MCI upstream and downstream of the discharge since the consents commenced. The findings shall be reported in the annual report required by Schedule 1: Condition 22.
- 9. The discharge of treated wastewater to Donald Creek shall occur in accordance with the certified Discharge to Land and Water Management Plan (Schedule 1: Condition 3, Table 2).

Monitoring

Wastewater Quality Monitoring

- 10. The Consent Holder shall monitor wastewater quality discharged to Donald Creek from the outlet of the UV plant on a monthly basis in accordance with Schedule 6: Table 1 and maintain records in accordance with the approved Discharge to Land and Water Management Plan (Schedule 1: Condition 3, Table 2).

Stream Flow Monitoring

- 11. The Consent Holder shall establish a permanent telemetered flow gauging site and measure stream flow for Donald Creek at a suitable location ~~to monitor the upstream of the~~ Featherston wastewater treatment

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plant discharge point within 2 years of the commencement of consent. The method of establishment, measurement and operation including calibration of the flow gauge shall:

- a. comply with standard AS3778 and
- b. be detailed in the Environmental Monitoring Plan in accordance with Schedule 1: Condition 3.
- c. be maintained using the following method:
 - i. Regular flow gauging of the site as per Schedule 6, Table 1 (monthly in Table 1 which can be reduced to quarterly once a rating curve and good correlation has been established).
 - ii. If the site reading differs from the flow gauging then the flow gauge profile shall be updated within 72 hours.
- d. Collect flow monitoring data continuously every 15 minutes.

Results shall be submitted quarterly in accordance with Schedule 1: Condition 21.

Receiving Water Quality Sampling

12. Subject to Schedule 1: Conditions 15, the Consent Holder shall collect representative grab samples from Donald Creek according to the frequency, and constituents, and locations specified in Schedule 6: Table 1 and Figure 1, at:
 - a. 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 6); and
 - b. The monitoring locations specified in the Environmental Monitoring Plan (following its certification approval pursuant to Schedule 1: Condition 6); and
 - c. All sites shall be sampled on the same day and the surface water sampling day shall coincide with the wastewater effluent sampling day pursuant to Schedule 1: Condition 12.
 - d. Following commencement of Stage 2B, the discharge shall be monitored during the months of July and August and a sample taken when discharge is occurring. If discharge does not occur during these months, a sample shall be taken on the last working day of that month.

Macroinvertebrate, Periphyton, Algae and Deposited Sediment Sampling

13. The Consent Holder shall have an appropriately qualified and experienced ecologist undertake a summer and winter ecological survey of Donald Creek to determine the effect of the discharge on the aquatic ecosystem. The survey shall be undertaken within one year of implementing Stage 1 and annually for three years. The frequency of survey thereafter shall decrease to every five years.

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 Donald Creek) and following at least two days of discharge in the two weeks preceding the discharge.

The ecology survey on Donald Creek shall be undertaken at two sites upstream and two sites downstream of the discharge.

Detailed methods for the survey shall be provided in the Environmental Monitoring Plan certified pursuant to Schedule 1: Condition 5. As a minimum the survey shall include assessment of:

- a. Periphyton cover and biomass at sites upstream and downstream of the discharge.

- b. The presence and cover of any nuisance heterotrophic growths on the stream bed.
- c. Aquatic macroinvertebrate community by collecting a minimum of five replicate Surber samples at each site using Protocol C3 of Stark et al. (2001)
- d. The amount of fine sediment on the stream bed using the Shuffle Index.

Advice Note 5: *If suitable flow and discharge conditions do not occur to allow a survey then the survey may be postponed until the following year.*

Reporting

- 14. The findings and results of monitoring undertaken in accordance with Schedule 2: Condition 13 (including assessment against the parameters in Schedule 2: Condition 7) shall be incorporated and submitted in annual reports, as required by Schedule 1: Condition 22.

Review of monitoring sites

- 15. 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 4.

Schedule 3: Conditions for WAR120294 [31761] - 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 Featherston 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 to either Site A or 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 to either Site A or Site B Land Treatment sites, at or beyond the boundary of the respective wastewater discharge area (but excluding any effects from discharge to land with the boundary of the designated WWTP site).
4. The management of odour from the Featherston WWTP shall be undertaken in accordance with the certified Odour Management Plan (Schedule 1: Condition 3, Table 2).

Schedule 4: Conditions for WAR12094 [XXXXX] - Discharge permit to discharge treated wastewater to land via a land discharge system

Discharge Rate and Quality

1. Except as allowed for in the Discharge to Land and Water Management Plan required in accordance with Schedule 1: Condition 3, the discharge of treated wastewater to land shall not exceed the following rates:
 - a. Stage 1 Land Treatment: Site A 1,520 m³/day, Site B 4,950 m³/day
 - b. Stage 2 Land Treatment: Site A 1,520 m³/day, Site B 7,975 m³/day
2. The wastewater hydraulic loading rate shall not exceed the following:
 - a. 19 mm in any 24 hour period to Site A; and
 - b. 55 mm depth per week, and no more than 55 mm in any 24 hour period to Site B.
3. Any treated wastewater discharged shall meet the following standards:
 - a. The concentration of BOD₅ shall not exceed 35 g/m³ in more than 3 out of any 12 consecutive monthly test results;
 - b. The concentration of TSS shall not exceed 100 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.

shall not exceed a maximum of 300 kgN/ha/yr from any source and is to be determined from the average of 12 consecutive monthly effluent quality test results and the average monthly discharge volume applied to land, collected in accordance with Schedule 4 Conditions 11 and 12 and any applied rates of other sources, except as described in Condition 4.
4. Should the nutrient loading rates in Condition 3 be exceeded, the equivalent additional mass of nutrient loading over and above that in Condition 3 shall be removed from the area to which it has been applied in harvested material.

Advice Note 1: Nutrient loading over and above the grazed maximum requires harvesting as hay or silage, or some form of crop removal. The efficacy of the additional removal shall be demonstrated by recording the mass of herbage or crop removed and its nutrient concentration in accordance with the Environmental Monitoring Plan (Schedule 1: Condition 3 Table 2). The details of this harvesting regime shall be detailed in the Discharge to Land and Water Management Plan (Schedule 1: Condition 3 Table 2).
5. The detailed design of the land discharge proposed for Stage 1 shall be included in the Discharge to Land and Water Management Plan (Schedule 1: Condition 3, Table 2).
6. The detailed design for Stages 2A and 2B land discharge shall be included within any revision to the Discharge to Land and Water Management Plan in accordance with Schedule 1: Condition 9.
7. The land discharge for all Stages shall be designed, where practicable, to 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 125 m of the property boundary, except that wastewater may be discharged to land within 25 m from the property boundary where:
 - i. Median E. Coli. concentrations meet or are less than 100cfu/100ml; and
 - ii. Irrigation is at low pressure (less than 1.4 bar);
 - iii. Where wind speed does not exceed 12 m/s (or 4 m/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 150 m of the irrigation area.
8. The discharge of treated wastewater to land discharge areas shall occur in accordance with the certified Discharge to Land and Water Management Plan (Schedule 1: Condition 3, Table 2).

Confirmation of Land Treatment

9. The Consent Holder shall confirm in writing to the Manager, Environmental Regulation, Wellington Regional Council the commencement date of any land discharge in all Stages, 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.
10. A copy of the confirmation required by Schedule 2: Condition 9 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.

Monitoring

11. The Consent Holder shall continuously measure and maintain daily records of wastewater flows entering the Featherston WWTP and the volume and location of treated wastewater discharged to land discharge areas.
12. The Consent Holder shall monitor the quality of the wastewater to be discharged to the land discharge areas from the outlet of the UV plant in accordance with Schedule 6: Table 1 and maintain records in accordance with the approved Discharge to Land and Water Management Plan (Schedule 1: Condition 3, Table 2).
13. The Consent Holder shall record crop and pasture management practices across the land discharge areas in accordance with the approved Discharge to Land and Water Management Plan (Schedule 1: Condition 3, Table 2), including:
- a. Stock type, number and location
 - b. Cultivation date;
 - c. Sowing date;
 - d. Fertiliser applications;
 - e. Harvesting; and
 - f. Any other management practices
14. The Consent Holder shall carry out groundwater sampling according to the constituents and frequency specified in the Environmental Monitoring Plan (Schedule 1: Condition 3, Table 2); and samples shall be taken in accordance with the most recent version of Wellington Regional Council's groundwater sampling protocol.

- 15. During all Stages, the Consent Holder shall undertake soil monitoring in accordance with the Environmental Monitoring Plan (Schedule 1: Condition 3, Table 2) during the period of September and October every second year to assess soil health and performance of the land discharge scheme.

Reporting

- 16. The findings and results of monitoring undertaken under Schedule 4: Conditions 11 to 15 shall be incorporated and submitted in the Quarterly and Annual Reports (Schedule 1: Condition 21 and 22) including an overall monthly site nitrogen budget, outlining the nitrogen inputs and outputs for each month, as well as the deficit/surplus each month, collected in accordance with Schedule 4: Condition 3.

Alternative Potable Water Supply

- 17. Prior to irrigating treated wastewater to land, the consent holder shall offer to provide, potable water supply from the SWDC owned and managed Featherston town supply, to all shallow bore owners identified as being at risk from the discharge in Table 6 (where it is confirmed that a particular bore user is using the bore for potable water supplies). This provision of this supply shall be at no cost to the land owner and shall be implemented prior to commencement of irrigation. There shall be no charge to the landowner for the capital costs of providing this supply and no usage charge for reasonable volumes of potable use consistent with the occupation of property concerned;

Table 6: Details of Bores at Risk to be Supplied with Potable Water

GWRC Bore ID	Easting NZTM	Northing NZTM	Address	Legal Description
S27/0019				
S27/0010				
S27/0840				
S27/0812				
S27/0023				
S27/0026				
S27/0027				
S27/0063				
S27/0044				
S27/0701				
S27/0080				
S27/0838				
S27/0664				
S27/0813				
S27/0827				
S27/0090				
S27/0671				

- 18. The consent holder shall take all practicable measures to avoid or minimise spray or spray drift onto electricity support structures or conductors so that any discharges of wastewater or biosolids from irrigation and spreading activities do not create a hazard or nuisance to the electricity distribution lines.

Advice Notes

19. [Any movement or relocation of Powerco assets will need to be supervised and undertaken by a Powerco approved contractor or otherwise agreed. A list of these contractors in the Wairarapa area can be found at \[www.powerco.co.nz/get-connected/electricity/approved-contractors\]\(http://www.powerco.co.nz/get-connected/electricity/approved-contractors\). Works around our assets or increasing the electricity supply can also be arranged through the Customer Initiated Works \(CIW\) process by contacting Powerco at \[CustomerWorksWestern@powerco.co.nz\]\(mailto:CustomerWorksWestern@powerco.co.nz\).](#)
20. [When working in and around network utilities use the 'Dial Before You Dig' service, which can be found online at \[www.beforeudig.co.nz\]\(http://www.beforeudig.co.nz\) and the National Code of Practice for Utility Operators Access to Transport Corridors 2011.](#)
21. [All machinery, mobile plant and irrigation systems will need to maintain a minimum clearance distance of 4 metres or otherwise agreed from the electricity line conductors at all times. Please refer to NZECP 34:2001 for further details about safe distances of mobile plant from conductors.](#)

Field Code Changed

Schedule 5: Conditions for WAR12094 [31762] - Discharge permit to discharge treated wastewater to land via seepage from FWWTP oxidation ponds and discharge channel

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 and sides of the discharge channel via seepage is for 24 hours per day, 7 days per week, 52 weeks per year.

Monitoring

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 date of commencement of these consents.

Reporting

3. Results shall be analysed and reported to Wellington Regional Council including any recommended actions, such as groundwater monitoring, as part of the first Annual Report (Schedule 1: Condition 23) following the conclusion of the each water balance assessment and analysis required by Schedule 5: Condition 2.

Schedule 6: Monitoring Summary

Table 1: Sampling Parameters, Frequency and Location

Location	Plant Inlet	Plant Outlet	Land discharge area	Donald Creek	Groundwater sampling (Land discharge area)
Constituent	Pre inlet to pond	Post UV		At locations in Table 2 and Figure 1 or otherwise agreed with GWRC until the Environmental Monitoring Plan is certified in accordance with Schedule 1: Condition 5	At locations set out in the Environmental Monitoring Plan certified in accordance with Schedule 1: Condition 5.
Flow	Every 15 minutes	Every 15 minutes	Daily		Water level below top of casing monthly
Inspection	Daily	Daily	Daily		Monthly
Pond level		Daily			
UV Dosage			Daily		
Total Biological Oxygen Demand (BOD ₅)		Monthly		Monthly	
Soluble carbonaceous Biological Oxygen Demand (scBOD ₅)		Monthly		Monthly	
Suspended Solids (TSS)		Monthly		Monthly	
<i>E. coli</i>		Monthly		Monthly	
Ammoniacal Nitrogen (NH ₄ -N)		Monthly		Monthly	April and September
Nitrate-Nitrite Nitrogen (NO _x -N)		Monthly		Monthly	April and September
Total Nitrogen (TN)		Monthly		Monthly	April and September
Total Phosphorus (TP)		Monthly		Monthly	April and September
Dissolved Reactive Phosphorus (DRP)		Monthly		Monthly	April and September
pH		Monthly		Monthly	
Conductivity		Monthly		Monthly	
Temperature		Monthly		Monthly	
Clarity (black disc)		Monthly		Monthly	
Dissolved Oxygen (DO)		Monthly		Monthly	

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Location	Plant Inlet	Plant Outlet	Land discharge area	Donald Creek	Groundwater sampling (Land discharge area)
Colour				Monthly	
Norovirus	Quarterly for the first year of commencement of consent and then annually thereafter	Quarterly for the first year of commencement of consent and then annually thereafter			

Advice Note 1: Schedule 1: Condition 12 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 9) 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		
UV Treatment Plant Outlet	5443488	1795090
B. Featherston Receiving Water (Donald Creek)		
Featherston Upstream (Longwood 2)	5443416	1795270
Featherston Downstream (Longwood 3)	5443361	1795297
Featherston Downstream (Longwood 6)	1795241	5442983
C. Macroinvertebrate Monitoring Sampling Sites		
Featherston 100 m Upstream (Site 1)	5443729.8	1795256.3
Featherston 25 m Upstream (Site 2)	5443644.1	1795288.8
Featherston 50 m Downstream (Site 4)	5443113.1	1795283.4
Featherston 450 m Downstream (Site 5)	5443115.6	1795191.1
D. Groundwater Sampling Sites		
[To be confirmed in the Environmental Monitoring Plan]		

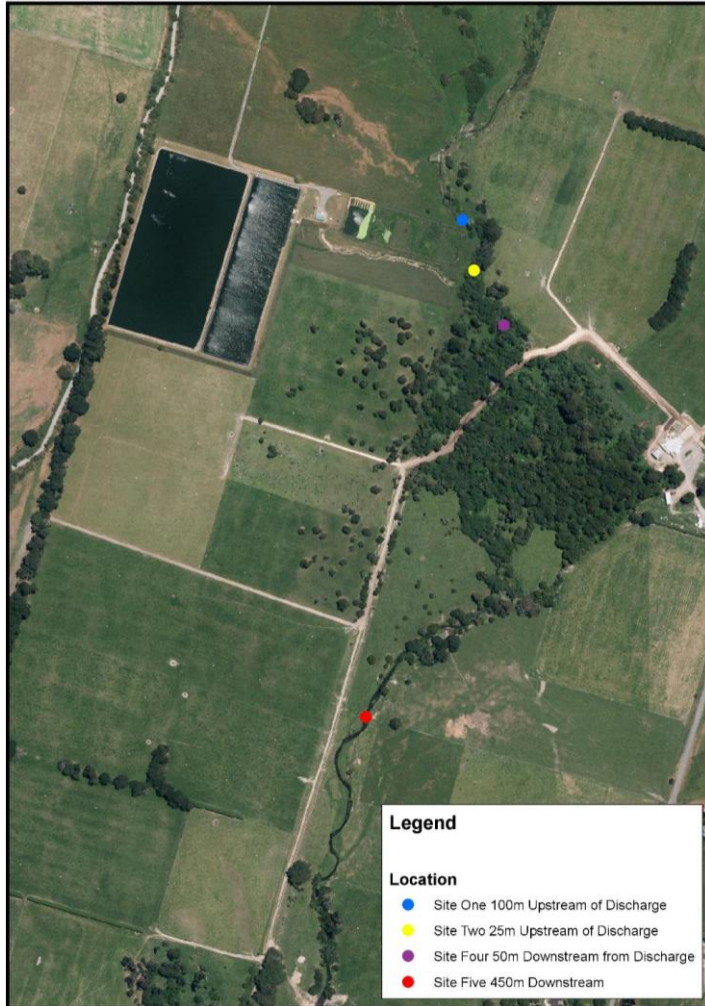
Advice Note 2: Schedule 1: Condition 12 applies to Schedule 6: Table 2 to the extent that where an approved management plan or manual (including any review in accordance with Schedule 1: Condition 9) contains a monitoring location which differs from those specific methodologies contained within this 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).

Figure 1: Indicative WWTP flow and water quality monitoring site locations



Advice Note 3: Schedule 1: Condition 12 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 9) contains a monitoring location which differs from those shown on Figure 1, the management plan shall prevail.

Figure 2: Indicative ecological monitoring site locations



Date: 18/02/2017



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DISCLAIMER:
The Council, its staff, and the staff of the various entities under its responsibility
do not accept any liability for any loss or damage, whether direct or indirect,
arising from the use of the information contained in this report. The
Council and staff do not accept any liability for any loss or damage,
whether direct or indirect, arising from the use of the information
contained in this report. The Council and staff do not accept any liability
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use of the information contained in this report.

Advice Note 4: All Sites refer to 25m long reaches of the Creek that have been sampled under previous consents, and are included here to ensure consistency).

Advice Note 5: Schedule 1: Condition 12 applies to Schedule 6: Figure 2 to the extent that where an approved management plan or manual (including any review in accordance with Schedule 1: Condition 9) contains a monitoring location which differs from those shown on Figure 2, 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 Featherston Wastewater Treatment Plant (FWWTP) and the discharge of treated effluent to land both at the FWWT adjacent Site A and Site B. The CLG does not have a regulatory function.

The CLG will work in a collaborative manner with the CLGs for the Greytown 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:

- Featherston Community Board (1 representative)
- Featherston residents (Any submitter and/or resident - two 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 Featherston 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 Featherston 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 FWWTP;
- 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 FWWTP 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; and
- g. Final sign-off and authority for any matters on behalf of the CLG.

Role/responsibility of GWRC member

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 FWWTP 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 defined 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 FWWTP 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.

Featherston WWTP Project Updates

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

Media and public speaking

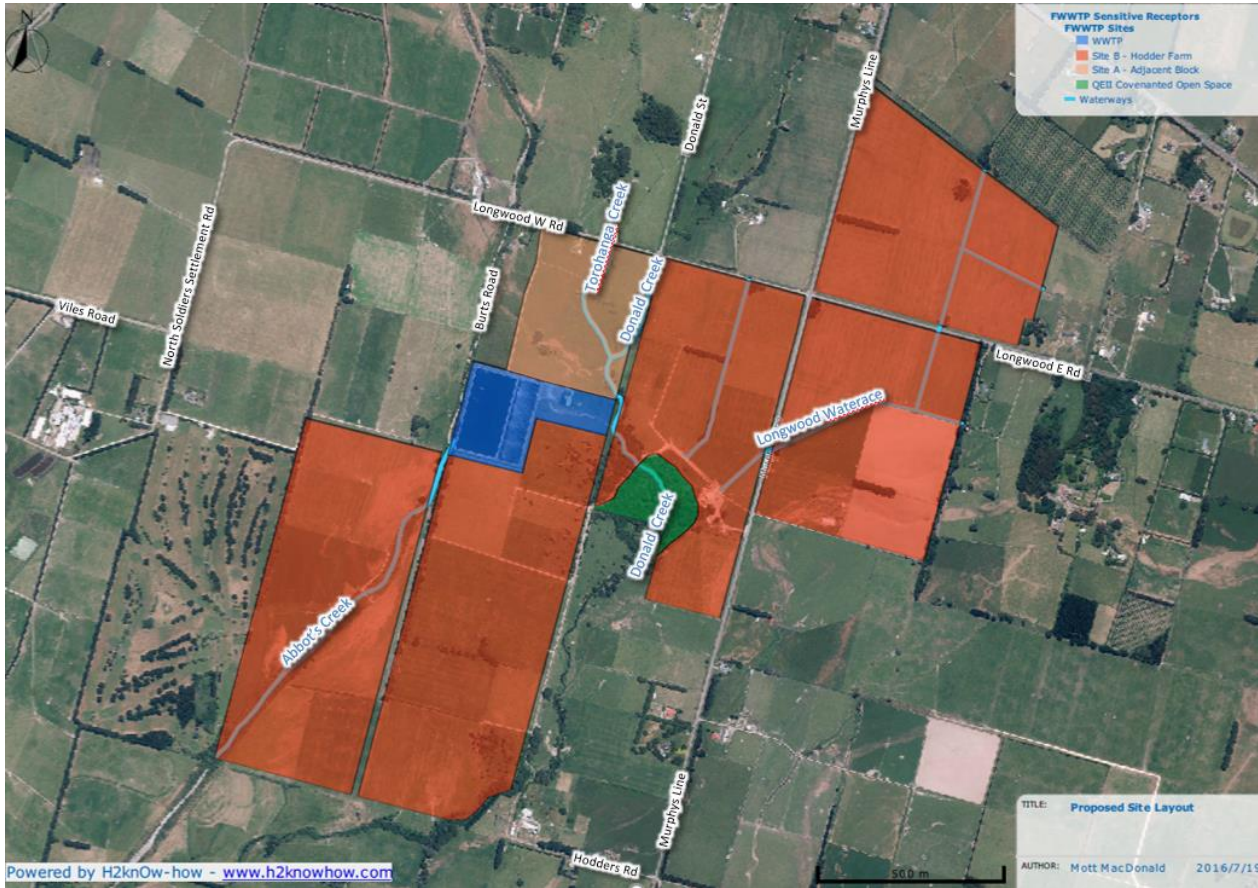
All media enquiries should be directed directly to SWDC. Community representatives, including the chair of the CLG approached to provide comment on the project, consents, or the CLG should make clear their response is a personal *view*, rather than the collective *view* of the CLG. As a courtesy, community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

Schedule 8: Irrigation Area Layout Plan

Figure 3: Proposed Featherston Land Application Scheme Layout Plan





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