

Te Tai Tokerau Water Trust

To undertake the following activities associated with the construction and operation of the Matawii Water Storage Reservoir:

1. Construct a dam in, on, and over the bed of the Kopenui Stream, at or about location co-ordinates: <INSERT> .
2. Earthworks for the construction of a dam and land contouring, at or about location co-ordinates: <INSERT>
3. Vegetation clearance for the construction of a dam and land-contouring, at or about location co-ordinates: <INSERT>
4. Dam and divert water associated with earthworks for the construction the dam and land contouring, at or about location co-ordinates: <INSERT>
5. Dam and divert water in the Kopenui Stream and tributaries, at or about location co-ordinates: <INSERT>
6. Take water from the Matawii Water Storage Reservoir, at or about location co-ordinates: <INSERT>
7. Take water from the Waioro Stream at the Far North District Council Weir, at or about location co-ordinates: <INSERT>
8. Take water from the Waioro Stream at Cumber Road when the stream flow is augmented by water from the Matawii Water Storage Reservoir, at or about location co-ordinates: <INSERT>
9. Take water from the Waioro Stream at Cumber Road during normal run-of-river conditions, at or about location co-ordinates: <INSERT>
10. Discharge stormwater to water and to land where it may enter water during land disturbance activities, at or about location co-ordinates: <INSERT>

Construction

1. The Consent Holder shall undertake the works in general accordance with the application formally received by the Environment Protection Agency on the [DATE], and the following documents. In the event that any of the provisions of the following documents conflict with the requirements of these conditions of consent, these conditions of consent shall prevail.

- (a) Preliminary Geotechnical and Dam Concept Assessment: Matawii Water Storage Reservoir. 8 July 2020. Prepared by Riley Consultants Ltd. Report Reference: 190272-A (Issue 2.0)
 - (b) Kopenui Stream Reservoir: Assessment of Ecological Effects. 24 April 2020. Prepared by Puhoi Stour Ltd. PSL Report Number 2020/02
 - (c) Consenting for the Matawii Reservoir: Hydrology Assessment. 8 July 2020. Prepared by Williamson Water & Land Advisory. Project No: WWLA0165_v06.
 - (d) Landscape and Visual Amenity Assessment. 8 July 2020. Prepared by Simon Cocker Landscape Architecture. Report No: 20021_01.
2. Far North District Council and Northland Regional Council shall be notified of works at least two weeks prior to commencement. A site meeting between the principal earthmoving contractor and the Council's assigned monitoring officers shall be held on site prior to any earthworks commencing.
 3. Copies of the consent documentation shall be provided to any person who is to carry out the works authorised by these consents, prior to any work commencing.
 4. The Consent Holder shall, prior to the commencement of any site work, prepare and submit a Construction Management Plan which sets out the methodologies, practices and procedures to be adopted in order to manage the operational aspects of the consented work. The Construction Management Plan shall be submitted to Northland Regional Council's Monitoring Manager for certification. No works shall be undertaken until this certification has been given in writing.
 5. As a minimum the Construction Management Plan required under Condition 4 shall include the following details:
 - (a) Who the principal contractor and sub-contractors are;
 - (b) Names and telephone numbers of supervisory staff;
 - (c) A dust management plan;
 - (d) Construction methodology and timetable;
 - (e) Environmental emergency response procedures;
 - (f) Processes to be followed in wet weather;
 - (g) A maintenance programme for haul and access roads;

- (h) Security systems proposed for any refuelling and maintenance depots;
- (i) Mitigation and contingency measures for (but not limited to) the following:
 - (i) Erosion control and construction material loss;
 - (ii) Spills (including oils, hydraulic fluids, other chemicals);
 - (iii) Occurrences of non-compliance;
 - (iv) Failure of protection works for earthworks; and
 - (v) Water collection management.

The Consent Holder shall undertake the activities authorised by these consents in accordance with the certified Construction Management Plan.

6. An Erosion and Sediment Control Management Plan will be supplied to the Northland Regional Council's Compliance Manager for certification. No earthworks shall be undertaken under this consent until this certification has been given in writing. The Erosion and Sediment Control Management Plan shall set out the practices and procedures to be adopted in order that compliance with the conditions of this consent is achieved and shall include;
 - (a) The expected duration (timing and staging) of the major cut and fill operations, drainage works, disposal sites for unsuitable materials/overburden, and clean water diversions.
 - (b) Diagrams and/or plans, of a scale suitable for on-site reference, showing the locations of the major cut and fill operations, disposal sites for unsuitable materials, erosion and silt control structures/measures, and water quality sampling sites.
 - (c) Details of erosion and sediment controls including specific pond design and calculations as required;
 - (d) Supporting calculations and catchment boundaries for the erosion and sediment controls;
 - (e) The commencement and completion dates for the implementation of the proposed erosion and sediment controls;
 - (f) Methods to be used to stabilise batter faces;
 - (g) Details of surface re-vegetation of disturbed sites and other surface covering measures to minimise erosion and sediment runoff following construction.
 - (h) Measures to minimise sediment being deposited on public roads, beyond the works area.

(i) A monitoring programme dealing with significant sediment plumes that are a result of the works authorised by this Consent, being plumes that persist for longer than 48 hours. The monitoring shall include, but not be limited to:

- (i) Regular task specific visual monitoring of sediment plumes in the Kopenui Stream;
- (ii) Consultation between the site manager and the Northland Regional Council's Monitoring Manager regarding any sediment plumes that persist for more than 48 hours;
- (iii) Water quality sampling and analysis procedures to quantify the downstream water quality effects listed in Condition 6(i) should sediment plumes persist for more than 48 hours.

7. All earthworks shall be undertaken in compliance with the certified Erosion and Sediment Control Management Plan, or any amendments to the certified Erosion and Sediment Control Management Plan, as agreed in consultation with the Northland Regional Council's assigned monitoring officer.
8. All bare areas of land beyond the reservoir footprint shall be stabilised following the completion of earthworks.
9. The construction operations shall not give rise to any discharge of contaminants (e.g. dust), at or beyond the property boundary, which is noxious, dangerous, offensive or objectionable to such an extent that it has, or is likely to have, an adverse effect on the environment. Dust control measures shall be available on site, to ensure compliance with this condition.
10. The upstream and downstream passage of indigenous freshwater fish shall be provided for and be effective under the flow range conditions of the Kopenui Stream environment during construction of the dam and reservoir area.
11. All construction activity under this consent must comply with the certified Native Freshwater Fauna Salvage and Relocation Plan, Bat Management Plan, Avifauna Management Plan, and Lizard Management Plans.
12. A Works Completion Report shall be prepared within 3 months of completion of earthworks. The report shall be submitted to Far North District Council for certification. The Works Completion Report shall contain sufficient detail to address the following matters:
 - (a) A summary of the works undertaken within the development area.
 - (b) Records of unexpected contamination encountered and the response actions, if applicable.

High-Flow Water Take (Wairoro Stream at the existing FNDC Weir)

13. The maximum rate of take from the Wairoro Stream at the existing weir at or about NZTM 1672625E 6083909N shall not exceed 250 litres per second.
14. No water shall be taken under Condition 13 when the flow in the Wairoro Stream measured at or about NZTM 1672625E 6083909N is at or below 154 litres per second.

High-Flow Water Take (Kopenui Stream from the Matawii Water Storage Reservoir)

15. The maximum rate of the take from the Matawii Water Storage Reservoir shall not exceed 10,000 cubic metres per day.

Augmentation Water Take (Wairoro Stream at Cumber Road)

16. The total abstraction authorised to be taken from the Wairoro Stream at Cumber Road (at or about NZTM ####) shall not exceed the volume of water being discharged into the Wairoro Stream (at or about NZTM 1672625E 6083909N). Discharges to the Wairoro Stream for the purposes of augmenting flow for subsequent taking under this Condition shall be undertaken accordance with the Operational Reservoir Management Plan which will be prepared in accordance with Condition 27.

Primary Allocation Water Take (Wairoro Stream at Cumber Road)

17. The maximum rate and volume of taking from the Wairoro Stream at or about NZTM #### shall not exceed;
 - (a) 27 litres per second;
 - (b) 2,300 cubic metres per day;
 - (c) 422,000 cubic metres between 1 July and 30 June in the following year.
18. No water shall be taken when the flow in the Wairoro Stream measured at or about NZTM ##### is at or below 98 litres per second.

General Water Take Conditions

19. Screening devices shall be maintained at each intake point that limit the intake velocity across the screen to less than 0.3 metres/second and have no holes or slots with a diameter or width greater than 5 millimetres.
20. Prior to the first exercise of this consent, water meters shall be installed to measure the volumes of water taken, in cubic metres, for each take. Each meter shall:

- (a) Be able to provide data in a form suitable for electronic storage;
- (b) Be sealed and as tamper-proof as practicable;
- (c) Be installed at the location from which the water is taken; and
- (d) Have an accuracy of +/-5%.

The Consent Holder shall, at all times, provide safe and easy access to each meter installed for Council to undertake visual inspections and record water take measurements.

21. The Consent Holder shall verify that the meter required by Condition 15 is accurate. This verification shall be undertaken prior to 30 June:

- (a) Following the first taking of water in accordance with this consent; and
- (b) At least once in every five years thereafter.

Each verification shall be undertaken by a person, who in the opinion of the Council's Compliance Manager, is suitably qualified. Written verification of the accuracy shall be provided to the Northland Regional Council's assigned Monitoring Officer no later than 31 July following the date of each verification.

22. The Consent Holder shall keep a record of the daily volume of water taken from each site of abstraction in cubic metres, including all nil abstractions, using the readings from the meter required by Condition 20.

23. The water meters required by Condition 20 shall all have electronic datalogger for automatic logging of meter data.

24. A copy of the records required to be kept by Condition 22 shall be forwarded to the Northland Regional Council's assigned Monitoring Officer on an annual basis during the month of May. In addition, a copy of these records shall be forwarded immediately to the Council's assigned Monitoring Officer on written request. The records shall be in an electronic format that has been agreed to by the council.

Advice Note: *If no water is taken during any calendar month then the Consent Holder is still required to notify the Northland Regional Council's Monitoring Manager in writing of the nil abstraction. Water use record sheets in an electronic format are available from the council's website at www.nrc.govt.nz/wur.*

Operation of the Matawii Water Storage Reservoir

25. The structures covered by these consents shall be maintained in good order and repair so that they work effectively at all times.

26. A residual flow range will be maintained below the reservoir through the reservoir outlet up to a maximum of 15 litres per second. The residual flow below the median flow of 15 litres per second will be calculated from inflows into the Matawii Water Storage Reservoir based on a water balance approach, augmented where practical by direct flow measurements in representative sub-catchments, and as documented through the Operational Reservoir Management Plan.
27. The Consent Holder shall, prior to the filling of the reservoir, prepare and submit an Operational Reservoir Management Plan which sets out the methodologies, practices and procedures to be adopted in order to manage the reservoir. The Operational Reservoir Management Plan shall be submitted to Northland Regional Council's Monitoring Manager for certification prior to operating the reservoir, and shall contain the following details:
- (a) An overview of the reservoir characteristics, construction and features and where details about the construction can be found;
 - (b) As-built drawings;
 - (c) Roles and responsibilities of the various parties associated with the operation of the Matawii Water Storage Reservoir;
 - (d) Inspection forms for engineering, water monitoring and maintenance inspections;
 - (e) Design levels, flows, triggers and telemetric monitoring requirements;
 - (f) Data management and information ownership;
 - (g) Maintenance functions and reporting requirements; and
 - (h) Details of annual reporting requirements to Northland Regional Council and Far North District Council.
28. Upstream and downstream passage for native eels will be provided during the operation of the Matawii Water Storage Reservoir. The methods for provision of native eel upstream and downstream passage during the operation of the Matawii Water Storage Reservoir will be documented in the Operational Reservoir Management Plan.
29. The Operational Reservoir Management Plan will be reviewed following two full years of reservoir operation for the purpose of verifying the performance of the plan, in particular in meeting residual flow requirements. The review, including any proposed changes to improve the performance associated with meeting residual flow and fish passage requirements, will be submitted to the Northland Regional Council before the end of the third year of reservoir operation.

30. The Consent Holder shall submit to the Far North Council by 30 September of each year a report from a suitably qualified and experienced independent registered engineer on the performance and maintenance of the dam structure and ancillary equipment. All recommended remedial works outlined in an annual report shall be carried out promptly.
31. In addition to the annual reports required by Condition 30, a review of the safety and efficiency of the dam structure and ancillary equipment shall be undertaken at five yearly intervals by a suitably qualified and experienced independent registered engineer. The review report shall be for the preceding five-year period ending 30 June. A copy of the review report shall be forwarded to the Far North District Council by the following 30 September. Any recommended remedial works shall be carried out in accordance with the timeframe specified in the review report.

Advice Note: *If the building consent issued for the reservoir under the Building Act 2004 has a same or similar condition to Conditions of 30 and 31 of this resource consent, then Conditions 30 and 31 do not apply.*

Ecological Management

32. The Consent Holder shall engage a suitably qualified expert(s) to develop the following management plans:
- (a) A Native Freshwater Fauna Salvage and Relocation Plan for all parts of the site where works will occur in-stream or aquatic habitat will be inundated will be developed.
 - (b) Bat Management Plan.
 - (c) Avifauna Management Plan.
 - (d) Lizard Management Plan.

These plans are intended to provide the methodologies that will be used to identify the presence of indigenous flora and fauna within each proposed area of works, and the methodology for the protection or removal. The plans shall be prepared by a suitably qualified and experienced ecologist and the methodologies shall be in accordance with nationally recognized and accepted methods.

33. The Native Freshwater Fauna Salvage and Relocation Plan shall be submitted to the Department of Conservation for certification.
34. The Bat Management Plan, Avifauna Management Plan, and Lizard Management Plan shall be submitted to the Far North District Council's Monitoring Manager for certification.

35. In addition, the Consent Holder shall, at least one month before construction work begins, submit to the Council's Monitoring Officer for certification, a Biodiversity Offset and Compensation Plan prepared by a suitably qualified and experienced ecologist and in general accordance with the Offset and Compensation Plan set out in the following document: David Pickett, Justine Quinn, Josh Markham, and Martin Neale. 24 July 2020. Matawii Water Storage Reservoir – Offset and Compensation Plan. Prepared by Puhoi Stour Ltd in association with Tonkin & Taylor Ltd. PSL Report Number 2020/09.
36. The Biodiversity Offset and Compensation Plan shall include, but not be limited to:
- (a) Planting proposals and plans for environmental enhancement of the Kopenui Stream upstream and downstream of the Matawii Water Storage Reservoir; and
 - (b) The measures to be undertaken to strengthen and complement the natural vegetation patterns within the site and immediately surrounding area; and
 - (c) Identification of other sites where ecological restoration and enhancement activities will take place and how, including but not limited to, initial and operational pest plant and animal eradication measures.

Water Use

37. The Consent Holder shall maintain its water supply reticulation so that it operates effectively at all times and the loss of water from the reticulation network is, as far as is practicable, minimised. A record of all maintenance shall be available to view by the Northland Regional Council's Monitoring Manager immediately on request by that manager.
38. The Consent Holder shall prepare a Water Supply Management Plan for the Matawii Water Storage Reservoir and submit it to the Northland Regional Council's Monitoring Manager within 12 months of the date of the commencement of these consents. The Water Supply Management Plan shall identify the overall water supply strategies to manage the potential effects of the use of water by people who receive water from the Matawii Water Water Storage Reservoir under supply agreements.
39. The Water Supply Management Plan shall include but not be limited to:
- (a) A general policy on how decisions will be made to supply water to persons from the scheme;
 - (b) Identification of allocation quantities to persons as set out under Water Supply Agreements;
 - (c) Responsibilities of persons receiving the water to ensure water is conveyed and used efficiently, including the following considerations:

- (i) An assessment of the demonstrated need for water, including current and likely future demand; and
- (ii) Implementation of good management practices, taking into account the nature of the activity, to efficiently use water.

40. The Water Supply Management Plan shall be reviewed annually from the date of first certification by the Northland Regional Council to adjust operational practices as necessary to ensure compliance with consent conditions. Any amendments to the Water Supply Management Plan shall be provided to the Northland Regional Council's Monitoring Manager within 10 working days of the change being made.

Reservoir Water Quality

41. At quarterly intervals samples of water from the reservoir must be collected and analysed for the following:
- (a) Five-day biochemical oxygen demand (g/m³)
 - (b) Dissolved inorganic nitrogen (g/m³)
 - (c) Dissolved reactive phosphorus (g/m³)
 - (d) Cyanobacteria (mm³/L)
 - (e) Phytoplankton (mg-chlorophyll-a/m³)
 - (f) Escherichia coli (cfu/100 mL)
42. All samples must be collected using standard procedures and in appropriate laboratory supplied containers.
43. All samples collected as part of this monitoring programme must be transported in accordance with standard procedures and under chain of custody to the laboratory.
44. All samples collected must be analysed at a laboratory with registered quality assurance procedures, and all analyses are to be undertaken using standard methods, where applicable.
45. By 30 September, the results of monitoring for the previous calendar year shall be provided to the Northland Regional Council.

Review Condition

46. Northland Regional Council may, in accordance with Section 128 of the Resource Management Act 1991, serve notice on the Consent Holder of its intention to review the

conditions of this consent within three months of each anniversary of the commencement of the consent for any one of the following purposes:

- (a) adjusting the consented rate or volume of water should monitoring or future changes in water use indicate that the consented rate or volume is not able to be fully utilised. No such review shall occur within 10 years of the commencement of the consent and any such review must recognise that full development of the scheme may not be complete; or
- (b) determining whether the conditions of this consent are adequate to deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage; or
- (c) ensuring the conditions of this consent are consistent with any National Environmental Standards; or
- (d) adjusting or altering the method of water take data recording and transmission; or
- (e) requiring greater efficiency of water use.

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